Zero

0

Okojo-ermine number

$$\begin{aligned}&\mathrm{Oe}(54)\\ &\approx f_{\omega^\omega}(53)^{-1}\end{aligned}$$

One

1

Ten

10

Hundred

100

Thousand

1 000

Hardy-Ramanujan number

1 729

Kaprekar's constant

6 174

Ten thousand

$10\,000$

One hundred thousand

$100\,000$

Million

1 000 000

Ten million

10 000 000

Hundred million

100 000 000

Speed of light on vacuum (m/s)

299 792 458

Billion

$$1\ 000\ 000\ 000 = 10^9$$

World population (2026)

8 264 000 000

1 Astronomical Unit (m)

149 597 870 700

Trillion

$$1\ 000\ 000\ 000\ 000 = 10^{12}$$

Quadrillion

$$1\ 000\ 000\ 000\ 000\ 000 = 10^{15}$$

1 Light year (m)

9 460 730 472 580 800

1 Parsec (m)

30 856 775 812 799 588

Ramanujan constant

$$262\,537\,412\,640\,768$$
$$743.999999999992500\ldots$$

Quintillion

$$1\ 000\ 000\ 000\ 000\ 000\ 000 = 10^{18}$$

Guppy

$$100\,000\,000\,000\,000\,000\,000 = 10^{20}$$

Sextillion

$$1\ 000\ 000\ 000\ 000\ 000\ 000\ 000 = 10^{21}$$

Septillion

$$1\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000 = 10^{24}$$

Avogadro's constant

$6.022141199*10^{23}$

Octillion

$$1\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000 = 10^{27}$$

Nonillion

$$1\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000 = 10^{30}$$

Decillion

1 000 000 000 000 000 000 000 000 000 000 000 000

$= 10^{33}$

Goby

100 000 000 000 000 000 000 000 000 000 000 000

$= 10^{35}$

Undecillion

$$1\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000 = 10^{36}$$

Duodecillion

1 000 000 000 000 000 000 000 000 000 000 000 000 000 000

$= 10^{39}$

Tredecillion

$$1\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000 = 10^{42}$$

Quatuordecillion

$$1\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000 = 10^{45}$$

Quindecillion

$$1\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000 = 10^{48}$$

Gogol

$$100\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000 = 10^{50}$$

Sexdecillion

$$1\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000 = 10^{51}$$

Septemdecillion

$$1\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000 = 10^{54}$$

Octodecillion

$$1\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000 = 10^{57}$$

Novemdecillion

$$1\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000 = 10^{60}$$

Vigintillion

$$1\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000 = 10^{63}$$

Ogol

100 000 000 000 000 000 000 000 000 000 000
000 000 000 000 000 000 000 000 000 000 000
000 000 000 000 000
$= 10^{80}$

Trigintillion

$$1\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000 = 10^{93}$$

Googol

10 000 000 000 000 000 000 000 000 000 000
000 000 000 000 000 000 000 000 000 000 000
000 000 000 000 000 000 000 000 000 000 000
000

$= 10^{100}$

Quattuortrigintillion

10^{105}

Quintrigintillion

10^{108}

Sextrigintillion

10^{111}

Septentrigintillion

10^{114}

Octotrigintillion

10^{117}

Novemtrigintillion

10^{120}

Quadragintillion

10^{123}

Unquadragintillion

10^{126}

Duoquadragintillion

10^{129}

Trequadragintillion

10^{132}

Quattuorquadragintillion

10^{135}

Quinquadragintillion

10^{138}

Sexquadragintillion

10^{141}

Septenquadragintillion

10^{144}

Octoquadragintillion

10^{147}

Novemquadragintillion

10^{150}

Quinquagintillion

10^{153}

Sexagintillion

10^{183}

Number of Planck volumes in the observable universe

$4.6*10^{185}$

Gargoogol

10^{200}

Septuagintillion

10^{213}

Octogintillion

10^{243}

Gogolding

10^{250}

Nonagintillion

10^{273}

Centillion

10^{303}

Astragol

$\approx 2.8*10^{305}$

Uncentillion

10^{306}

Decicentillion

10^{333}

Viginticentillion

10^{363}

Faxul

$$200! \approx 7.8865786736 * 10^{374}$$

Triginticentillion

10^{393}

Ogolding

10^{400}

Quadragintacentillion

10^{423}

Quinqiaginticentillion

10^{453}

Pete-3.c

$2.33*10^{472}$

Sexagintacentillion

10^{483}

Googolding

10^{500}

Pampena's Prime

$$10^{506} - 10^{253} - 1$$
$$\approx 9.999*10^{505}$$

99 999 999 999 999 999 999 999 999 999 999 999 999 999 999 999 999 999 999 999 999 999 999 999 999
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999

Astrigol

$7.843*10^{512}$

Septuaginticentillion

10^{513}

Octogintacentillion

10^{543}

Tupper's number

$4.85845063618*10^{543}$

Cennovemoctogintillion

10^{570}

Novenonagintacentillion

10^{600}

Ducentillion

10^{603}

Unvigintiducentillion

10^{666}

Astergol

$6.213*10^{724}$

Ogolchime

10^{800}

Trecentillion

10^{903}

Astrapengol

$1.412*10^{941}$

Duotrigintatrecentillion

10^{999}

Googolchime

$10^{1\,000}$

Largest known repunit prime

$$R_{1\,031} = (10^{1\,031} - 1)/9$$
$$\approx 1.11111 * 10^{1\,030}$$

Astraexigol

$9.389*10^{1\ 161}$

Quadringentillion

$10^{1\,203}$

Quingentillion

$10^{1\,503}$

Ferguson's Number

$10^{1\,651}$

Sescentillion

$10^{1\,803}$

Legion's number of the first kind

$$666^{666}$$
$$\approx 2.7154175928871 2*10^{1\,880}$$

Guppytoll

$10^{2\,000}$

Septingentillion

$10^{2\ 103}$

Octingentillion

$10^{2\,403}$

Gogolbell

$10^{2\,500}$

Nongentillion

$10^{2\,703}$

Millillion

$10^{3\ 003}$

Milliauntillion

$10^{3\,006}$

Milliadotillion

$10^{3\,009}$

Milli-centillion

$10^{3\,303}$

Milli-ducentillion

$10^{3\,603}$

Ogolbell

$10^{4\,000}$

Googolbell

$10^{5\,000}$

Platillion

$10^{6\,000}$

Dumillillion

$10^{6\,003}$

Ogoltoll

$10^{8\,000}$

Duomillianongennovemnonagintillion

$10^{9\,000}$

Trimillillion

$10^{9\,003}$

Trimilliduotrigintatrecentillion

$10^{9\,999}$

Googoltoll

$10^{10\,000}$

Mevillion

$10^{10\,002}$

Largest known emirp

$10^{10\,006}$

Quadrimillillion

$10^{12\,003}$

Marioplex

$10^{12\,431}$

Quinmillillion

$10^{15\,003}$

Sexmillillion

$10^{18\,003}$

Demon duck of doom

$$\Sigma(6) \geq 3.514 * 10^{18\,267}$$

Guppygong

$10^{20\,000}$

Septimillillion

$10^{21\,003}$

Largest known Fibonacci prime

$$F_{104\,911} \approx 5.66*10^{21\,924}$$

Octimillillion

$10^{24\,003}$

Largest known Wagstaff prime

$$(2^{83\,339} + 1)/3$$
$$\approx 1.1626 * 10^{25\,087}$$

Nonimillillion

$10^{27\,003}$

Myrillion

$10^{30\,003}$

Astrangol

$1.741*10^{42\,853}$

Gogolgong

$10^{50\,000}$

Dumyrillion

$10^{60\,003}$

Ogolgong

$10^{80\,000}$

Hitchhiker's number

$$2^{276\,709}$$
$$\approx 5.117*10^{83\,297}$$

Greg's gazillion

$10^{86\,340}$

Trigintimillillion

$10^{90\,003}$

Tremyritrimilliduotrigintatrecentillion

$10^{99\,999}$

Googolgong

$10^{100\,000}$

Nonagintimillillion

$10^{270\,003}$

Centimillillion

$10^{300\,003}$

Hamlet Monkey Number

$$48^{182\,831}$$
$$\approx 1.039*10^{307\,383}$$

Largest known twin primes

$1.483*10^{388\,341}$

Ducentimillillion

$10^{600\,003}$

Largest known Fibonacci prime (probable)

$$F_{3,340,367} \approx 10^{698\ 095}$$

Largest known factorial prime (+1)

$$150\,209! + 1$$
$$\approx 2.3457 * 10^{712\,354}$$

Trescentimillillion

$10^{900\,003}$

Trecentimillitremyritrimilliduotrigintatrecentillion

$10^{999\,999}$

Maximusmillion (millionplex)

$$10^{1\,000\,000} = 10^{10^6}$$

Gggoogol

$$\sum_{i=0}^{9\,999} 10^{100+101i} \approx 10^{1\,009\,999}$$

Largest known factorial prime (−1)

$$208\,003! - 1$$
$$\approx 8.5854 * 10^{1\,015\,842}$$

Largest known primorial prime

$\approx 2.6433 * 10^{1\,418\,397}$

Largest known prime not containing digit ‘4’ (largest known non-pandigital prime)

$653*10^{1\,435\,026} - 1$

Heads-Tet-1-primol

$$7^{1\,953\,125}$$
$$\approx 1.2865*10^{1\,650\,582}$$

Borges' number

$$25^{410\times40\times80} = 25^{1\,312\,000}$$
$$\approx 1.9560 * 10^{1\,834\,097}$$

Largest known palindromic prime

$$10^{1,888,529} - 10^{944,264} - 1$$
$$\approx 10^{1\ 888\ 529}$$

Largest known Cullen prime

$$6\,679\,881 * 2^{6\,679\,881} + 1$$
$$\approx 2.3617 * 10^{2\,010\,851}$$

Largest known Pierpont prime of the second kind
(except Mersenne and Thabit primes)

$$4*72^{1\,119\,849} - 1$$
$$\approx 3.4742*10^{2\,079\,932}$$

Milli-millillion

$$10^{3\,000\,003}$$
$$= 10^{3*10^6+3}$$

Blastomlastillion

$10^{3\,003\,000}$

Largest known Wagstaff prime (probable)

$$(2^{13\,372\,531} + 1)/3$$
$$\approx 2.9636 * 10^{4\,025\,532}$$

Largest known Pierpont prime

$$3*2^{16\,408\,818}+1$$
$$\approx 7.7359*10^{4\,939\,546}$$

Largest known Thabit prime

$$3*2^{16\,819\,291}-1$$
$$\approx 3.74906*10^{5\,063\,111}$$

Largest known Woodall prime

$$8\,508\,301 * 2^{17\,016\,603} - 1$$
$$\approx 7.1969 * 10^{5\,122\,514}$$

Sierpinski prime

$$1.68451*2^{19\,375\,200} + 1$$
$$\approx 3.9670*10^{5\,832\,516}$$

Largest known repunit prime (probable)

$1.111111 * 10^{8\ 177\ 206}$

Largest known non-Mersenne prime (largest known Proth prime)

$$10\,223 * 231\,172\,165 + 1$$
$$\approx 5.0625 * 10^{9\,383\,760}$$

Goospolplex

$$10^{10\,000\,000} = 10^{10^7}$$

Guppybong

$$10^{20\,000\,000} = 10^{2*10^7}$$

Largest known prime

$$2^{82\,589\,933} - 1$$
$$\approx 1.4889 * 10^{24\,862\,047}$$

Largest known squarefree semiprime

$$(2^{77\,232\,917} - 1)(2^{82\,589\,933} - 1)$$
$$\approx 6.9583 * 10^{48\,111\,471}$$

Largest known perfect number

$$(2^{82\,589\,932})(2^{82\,589\,933} - 1)$$
$$\approx 1.1085 * 10^{49\,724\,094}$$

Largest known semiprime

$$(2^{82\,589\,933} - 1)^2$$
$$\approx 2.2170 * 10^{49\,724\,094}$$

Gogolbong

$$10^{50\,000\,000} = 10^{5*10^7}$$

Largest known sphenic number

$$(2^{74\,207\,281}-1)(2^{77\,232\,917}-1)(2^{82\,589\,933}-1)$$
$$\approx 2.0901*10^{70\,450\,089}$$

Ogolbong

$$10^{80\,000\,000} = 10^{8*10^7}$$

Googolbong

$$10^{100\,000\,000} = 10^{10^8}$$

Ulysses number

$$9^{9^9} = 9^{387420489}$$
$$\approx 4.28124812 * 10^{369\,693\,099}$$

Maximusbillion (billionplex)

$$10^{1\,000\,000\,000}$$

$$10^{10^9}$$

Nanillion

$$10^{3\,000\,000\,003} = 10^{3*10^9+3}$$

Duonanillion

$$10^{6\,000\,000\,003}$$
$$= 10^{6*10^9+3}$$

Trenanillion

$$10^{9\,000\,000\,003} = 10^{9*10^9+3}$$

Tremilliamilliamilliatrecentretri-
ginmilliamilliatrecentretrigin-
milliatrecendotrigintillion

$10^{9\,999\,999\,999}$

Trialogue

$$10^{10\,000\,000\,000} = 10^{10^{10}}$$

C.-R. Number

$\approx 10^{10^{10.87}}$

(evolves throughout time)

Ogolthrong

$$10^{80\,000\,000\,000} = 10^{8*10^{10}}$$

Googolthrong

$$10^{100\,000\,000\,000} = 10^{10^{11}}$$

Ballium's number

$$\approx 2.03542 * 10^{138\ 732\ 019\ 349}$$

Maximustrillion (trillionplex)

$$10^{1\,000\,000\,000\,000} = 10^{10^{12}}$$

Picillion

$$10^{3\,000\,000\,000\,003} = 10^{3*10^{12}+3}$$

Maximusquadrillion (quadrillionplex)

$$10^{1\,000\,000\,000\,000\,000} = 10^{10^{15}}$$

Femtillion

$$10^{3\,000\,000\,000\,000\,003} = 10^{3*10^{15}+3}$$

Attillion

$$10^{3\ 000\ 000\ 000\ 000\ 000\ 003} = 10^{3*10^{18}+3}$$

Guppyplex

$$10^{100\,000\,000\,000\,000\,000\,000} = 10^{10^{20}}$$

Zeptillion

$$10^{3\,000\,000\,000\,000\,000\,000\,003}$$
$$= 10^{3*10^{21}+3}$$

Yoctillion

$$10^{3\,000\,000\,000\,000\,000\,000\,000\,003}$$
$$= 10^{3*10^{24}+3}$$

little foot

$$\left(10^{32}\right)^{\left(10^{25}\right)}$$
$$= 10^{3.2*10^{26}}$$

Xonillion

$$10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 003}$$
$$= 10^{3*10^{27}+3}$$

SCP-1941's number

$$2^{2^{79}} + 3^{2^{83}} + 5^{2^{89}} + 7^{2^{97}} \approx 10^{1.339*10^{29}}$$

Vecillion

$$10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 003}$$
$$= 10^{3*10^{30}+3}$$

Mecillion

$$10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 003}$$
$$= 10^{3*10^{33}+3}$$

Duecillion

$$10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 003}$$
$$= 10^{3*10^{36}+3}$$

Trecillion

$$10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 003}$$
$$= 10^{3*10^{39}+3}$$

Tetrecillion

$$10^{3\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,003}$$
$$= 10^{3*10^{42}+3}$$

Pentecillion

$$10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 003}$$
$$= 10^{3*10^{45}+3}$$

Hexecillion

$$10^{3\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,003}$$

$$= 10^{3*10^{48}+3}$$

Heptecillion

$$10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 003}$$

$$= 10^{3*10^{51}+3}$$

Octecillion

$$10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 003}$$

$$= 10^{3*10^{54}+3}$$

Ennecillion

$$10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 003}$$

$$= 10^{3*10^{57}+3}$$

Icosillion (ducontillion)

$$10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 003}$$

$$= 10^{3*10^{60}+3}$$

Meicosillion

$$10^{3*10^{63}+3}$$

Dueicosillion

$10^{3*10^{66}+3}$

Trioicosillion

$$10^{3*10^{69}+3}$$

Tetreicosillion

$$10^{3*10^{72}+3}$$

Penteicosillion

$$10^{3*10^{75}+3}$$

Hexeicosillion

$10^{3*10^{78}+3}$

Hepteicosillion

$$10^{3*10^{81}+3}$$

Octeicosillion

$$10^{3*10^{84}+3}$$

Enneicosillion

$$10^{3*10^{87}+3}$$

Triacontillion

$$10^{3*10^{90}+3}$$

Metriacontillion

$$10^{3*10^{93}+3}$$

Duetriacontillion

$10^{3*10^{96}+3}$

Triotriacontillion

$10^{3*10^{99}+3}$

Googolplex

$$10^{10^{100}}$$

Googolillion (decitriotriacontillion)

$10^{3*10^{100}+3}$

Googolbang

$$(10^{100})! \approx 10^{10^{102}}$$

Triangol

$10^{10^{102}}$

Tetretriacontillion

$10^{3*10^{102}+3}$

Pentetriacontillion

$10^{3*10^{105}+3}$

Hexetriacontillion

$10^{3*10^{108}+3}$

Heptetriacontillion

$10^{3*10^{111}+3}$

Octetriacontillion

$10^{3*10^{114}+3}$

Ennetriacontillion

$10^{3*10^{117}+3}$

Tetracontillion

$10^{3*10^{120}+3}$

Metetracontillion

$10^{3*10^{123}+3}$

Duetetracontillion

$10^{3*10^{126}+3}$

Triotetracontillion

$10^{3*10^{129}+3}$

Tetretetracontillion

$10^{3*10^{132}+3}$

Pentetetracontillion

$10^{3*10^{135}+3}$

Hexetetracontillion

$10^{3*10^{138}+3}$

Heptetetracontillion

$10^{3*10^{141}+3}$

Octetetracontillion

$10^{3*10^{144}+3}$

Ennetetracontillion

$10^{3*10^{147}+3}$

Pentacontillion

$$10^{3*10^{150}+3}$$

Mepentacontillion

$10^{3*10^{153}+3}$

Duepentacontillion

$10^{3*10^{156}+3}$

Triopentacontillion

$10^{3*10^{159}+3}$

Tetrepentacontillion

$10^{3*10^{162}+3}$

Pentepentacontillion

$10^{3*10^{165}+3}$

Hexepentacontillion

$10^{3*10^{168}+3}$

Heptepentacontillion

$$10^{3*10^{171}+3}$$

Octepentacontillion

$10^{3*10^{174}+3}$

Ennepentacontillion

$10^{3*10^{177}+3}$

Hexacontillion

$$10^{3*10^{180}+3}$$

Heptacontillion

$10^{3*10^{210}+3}$

Minecraftplex (the number of different placements of blocks in every Minecraft world possible)-plex

$$10^{10^{215}}$$

Octacontillion

$10^{3*10^{240}+3}$

Ennacontillion

$10^{3*10^{270}+3}$

Hectillion

$10^{3*10^{300}+3}$

Ecetonplex

$10^{10^{303}}$

Mehectillion

$10^{3*10^{303}+3}$

Duehectillion

$10^{3*10^{306}+3}$

Triohectillion

$10^{3*10^{309}+3}$

Tetrehectillion

$10^{3*10^{312}+3}$

Pentehectillion

$10^{3*10^{315}+3}$

Hexehectillion

$10^{3*10^{318}+3}$

Heptehectillion

$10^{3*10^{321}+3}$

Octehectillion

$10^{3*10^{324}+3}$

Ennehectillion

$10^{3*10^{327}+3}$

Icosehectillion

$10^{3*10^{360}+3}$

Meicosehectillion

$10^{3*10^{363}+3}$

Kilofaxul

$$(200!)!$$
$$\approx 10^{9.48*10^{378}}$$

Dohectillion

$10^{3*10^{600}+3}$

Medohectillion

$10^{3*10^{603}+3}$

Leviathan number

$$10^{666}!$$
$$\approx 10^{6.6556570552*10^{668}}$$

Triahectillion

$10^{3*10^{900}+3}$

Googolplexichime (goomolplex)

$10^{10^{1\,000}}$

Tetrahectillion

$$10^{3*10^{1\,200}+3}$$

Pentahectillion

$$10^{3*10^{1\,500}+3}$$

Legion's number of the second kind

$$666!^{666!} \approx 10^{1.609941*10^{1\,596}}$$

Hexahectillion

$$10^{3*10^{1\,800}+3}$$

Heptahectillion

$$10^{3*10^{2\ 100}+3}$$

Octahectillion

$$10^{3*10^{2\,400}+3}$$

Ennahectillion

$$10^{3*10^{2\,700}+3}$$

Killillion

$$10^{3*10^{3\,000}+3}$$

Duokillillion

$10^{6*10^{3\,000}+3}$

Micrekillillion

$10^{3*10^{6\,000}+3}$

Nanekillillion

$$10^{3*10^{9\,000}+3}$$

Googolplexitoll

$$10^{10^{10\,000}}$$

Picekillillion

$$10^{3*10^{12\,000}+3}$$

Femtekillillion

$$10^{3*10^{15\,000}+3}$$

Attekillillion

$$10^{3*10^{18\,000}+3}$$

Zeptekillillion

$$10^{3*10^{21\,000}+3}$$

Yoctekillillion

$$10^{3*10^{24\,000}+3}$$

Xonekillillion

$10^{3*10^{27\,000}+3}$

Vecekillillion

$10^{3*10^{30\,000}+3}$

Mecekillillion

$$10^{3*10^{33\,000}+3}$$

Duecekillillion

$10^{3*10^{36\,000}+3}$

Icosekillillion

$$10^{3*10^{60\,000}+3}$$

Triacontekillillion

$$10^{3*10^{90\,000}+3}$$

Googolplexigong

$10^{10^{100\,000}}$

Tetrecontekillillion

$$10^{3*10^{120\,000}+3}$$

Hectekillillion

$$10^{3*10^{300\,000}+3}$$

Millionduplex

$$10^{10^{1\,000\,000}} = 10^{10^{10^6}}$$

Megillion

$$10^{3*10^{3\ 000\ 000}+3}$$

Micremegillion

$$10^{3*10^{6\,000\,000}+3}$$

SCP-2334 number

$$2^{24^{6\,000\,000}} \approx 10^{8.4894472*10^{8\,281\,266}}$$

Nanemegillion

$$10^{3*10^{9\,000\,000}+3}$$

Picemegillion

$$10^{3*10^{12\,000\,000}+3}$$

Googolplexibong

$$10^{10^{100\,000\,000}}$$

Billiduplexion

$$10^{10^{1\,000\,000\,000\,000}} = 10^{10^{10^9}}$$

Gigillion

$$10^{3*10^{3\ 000\ 000\ 000}+3}$$

Tetralogue

$$10^{10^{10\,000\,000\,000}} = 10^{10^{10^{10}}}$$

Googolplexithrong

$$10^{10^{100\,000\,000\,000}} = 10^{10^{10^{11}}}$$

Trilliduplexion

$$10^{10^{1\,000\,000\,000\,000}} = 10^{10^{10^{12}}}$$

Terillion

$$10^{3*10^{3\ 000\ 000\ 000\ 000}+3}$$
$$= 10^{3*10^{3*10^{12}}+3}$$

Petillion

$$10^{3*10^{3\ 000\ 000\ 000\ 000\ 000}+3}$$

$$= 10^{3*10^{3*10^{15}}+3}$$

Exillion

$$10^{3*10^{3\ 000\ 000\ 000\ 000\ 000\ 000}+3}$$

$$= 10^{3*10^{3*10^{18}}+3}$$

Guppyduplex

$$10^{10^{100\,000\,000\,000\,000\,000\,000\,000}} = 10^{10^{10^{20}}}$$

Zettillion

$$10^{3*10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}+3}$$

$$= 10^{3*10^{3*10^{21}}+3}$$

Yottillion

$$10^{3*10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}+3}$$

$$= 10^{3*10^{3*10^{24}}+3}$$

Xennillion

$$10^{3*10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}+3}$$

$$= 10^{3*10^{3*10^{27}}+3}$$

Dakillion (vekillion)

$$10^{3*10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}+3}$$

$$= 10^{3*10^{3*10^{30}}+3}$$

Hendillion (mekillion)

$$10^{3*10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}+3}$$

$$= 10^{3*10^{3*10^{33}}+3}$$

First Skewes' number

$$e^{e^{e^{79}}} \approx 10^{10^{10^{34}}}$$

Dokillion (duekillion)

$$10^{3*10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}+3}$$

$$= 10^{3*10^{3*10^{36}}+3}$$

Tradakillion (trekillion)

$$10^{3*10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}+3}$$

$$= 10^{3*10^{3*10^{39}}+3}$$

Tedakillion (tetrekillion)

$$10^{3*10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}+3}$$

$$= 10^{3*10^{3*10^{42}}+3}$$

Pedakillion (pentekillion)

$$10^{3*10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}+3}$$

$$= 10^{3*10^{3*10^{45}}+3}$$

Exdakillion (exekillion)

$$10^{3*10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}+3}$$

$$= 10^{3*10^{3*10^{48}}+3}$$

Zedakillion (heptekillion)

$$10^{3*10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}+3}$$

$$= 10^{3*10^{3*10^{51}}+3}$$

Yodakillion (octekillion)

$$10^{3*10^{3\ 000\ 000\ 000

Nedakillion (ennekillion)

$$= 10^{3*10^{3*10^{57}}+3}$$

Ikillion (twentillion)

$$= 10^{3*10^{3*10^{60}}+3}$$

Ikenillion

$$10^{3*10^{3*10^{63}}+3}$$

Icodillion

$$10^{3*10^{3*10^{66}}+3}$$

Ictrillion

$$10^{3*10^{3*10^{69}}+3}$$

Icterillion

$$10^{3*10^{3*10^{72}}+3}$$

Icpetillion

$$10^{3*10^{3*10^{75}}+3}$$

Ikectillion

$$10^{3*10^{3*10^{78}}+3}$$

Iczetillion

$$10^{3*10^{3*10^{81}}+3}$$

Ikyotillion

$$10^{3*10^{3*10^{84}}+3}$$

Icxenillion

$$10^{3*10^{3*10^{87}}+3}$$

Trakillion (thirtillion)

$$10^{3*10^{3*10^{90}}+3}$$

Trakenillion

$$10^{3*10^{3*10^{93}}+3}$$

Tracodillion

$$10^{3*10^{3*10^{96}}+3}$$

Tractrillion

$$10^{3*10^{3*10^{99}}+3}$$

Googolduplex (googolplexian)

$$10^{10^{10^{100}}}$$

Fugagoogol

$$(10^{100}) \downarrow\downarrow (10^{100})$$
$$= 10^{10^{10^{102}-98}}$$

Tracterillion

$$10^{3*10^{3*10^{102}}+3}$$

Tracpetillion

$$10^{3*10^{3*10^{105}}+3}$$

Trakectillion

$$10^{3*10^{3*10^{108}}+3}$$

Traczetillion

$$10^{3*10^{3*10^{111}}+3}$$

Trakyotillion

$$10^{3*10^{3*10^{114}}+3}$$

Tracxenillion

$$10^{3*10^{3*10^{117}}+3}$$

Tekillion (fortillion)

$$10^{3*10^{3*10^{120}}+3}$$

Poincaré recurrence time

$$\approx 10^{10^{10^{10^{2.08}}}}$$

Pekillion (fiftillion)

$$10^{3*10^{3*10^{150}}+3}$$

Exakillion (sixtillion)

$$10^{3*10^{3*10^{180}}+3}$$

Zakillion (seventillion)

$$10^{3*10^{3*10^{210}}+3}$$

Yokillion (eightillion)

$$10^{3*10^{3*10^{240}}+3}$$

Nekillion (nintillion)

$$10^{3*10^{3*10^{270}}+3}$$

Hotillion (hundrillion)

$$10^{3*10^{3*10^{300}}+3}$$

Hotenillion

$$10^{3*10^{3*10^{303}}+3}$$

Hotodillion

$$10^{3*10^{3*10^{306}}+3}$$

Hotrillion

$$10^{3*10^{3*10^{309}}+3}$$

Hoterillion

$$10^{3*10^{3*10^{312}}+3}$$

Hopetillion

$$10^{3*10^{3*10^{315}}+3}$$

Megafaxul

$$((200!)!)!$$
$$\approx 10^{10^{9.48*10^{378}}}$$

Botillion

$$10^{3*10^{3*10^{600}}+3}$$

Trotillion

$$10^{3*10^{3*10^{900}}+3}$$

Second Skewes' number

$$e^{e^{e^{e^{7.705}}}} \approx 10^{10^{10^{10^{963.5185}}}}$$

Totillion

$$10^{3*10^{3*10^{1\ 200}}+3}$$

Potillion

$$10^{3*10^{3*10^{1\,500}}+3}$$

Exotillion

$$10^{3*10^{3*10^{1\,800}}+3}$$

Zotillion

$$10^{3*10^{3*10^{2\ 100}}+3}$$

Yootillion

$$10^{3*10^{3*10^{2\ 400}}+3}$$

Notillion

$$10^{3*10^{3*10^{2\ 700}}+3}$$

Kalillion (thousillion)

$$10^{3*10^{3*10^{3\ 000}}+3}$$

Dalillion

$$10^{3*10^{3*10^{6\,000}}+3}$$

Tralillion

$$10^{3*10^{3*10^{9\,000}}+3}$$

Talillion

$$10^{3*10^{3*10^{12\,000}}+3}$$

Palillion

$$10^{3*10^{3*10^{15\,000}}+3}$$

Exalillion

$$10^{3*10^{3*10^{18\,000}}+3}$$

Zalillion

$$10^{3*10^{3*10^{21\,000}}+3}$$

Yalillion

$$10^{3*10^{3*10^{24\,000}}+3}$$

Nalillion

$$10^{3*10^{3*10^{27\,000}}+3}$$

Dakalillion (myriaillion)

$$10^{3*10^{3*10^{30\,000}}+3}$$

Hendakalillion

$$10^{3*10^{3*10^{33\ 000}}+3}$$

Dokalillion

$$10^{3*10^{3*10^{36\,000}}+3}$$

Tradakalillion

$$10^{3*10^{3*10^{39\,000}}+3}$$

Tedakalillion

$$10^{3*10^{3*10^{42\,000}}+3}$$

Pedakalillion

$$10^{3*10^{3*10^{45\,000}}+3}$$

Exadakalillion

$$10^{3*10^{3*10^{48\,000}}+3}$$

Zedakalillion

$$10^{3*10^{3*10^{51\,000}}+3}$$

Yodakalillion

$$10^{3*10^{3*10^{54\,000}}+3}$$

Nedakalillion

$$10^{3*10^{3*10^{57\,000}}+3}$$

Ikalillion

$$10^{3*10^{3*10^{60\,000}}+3}$$

Zacalillion

$$10^{3*10^{3*10^{210\,000}}+3}$$

Hotalillion (lakhillion)

$$10^{3*10^{3*10^{300\ 000}}+3}$$

Totalillion

$$10^{3*10^{3*10^{1\ 200\ 000}}+3}$$

Mejillion

$$10^{3*10^{3*10^{3\ 000\ 000}}+3}$$

Dejillion

$$10^{3*10^{3*10^{6\,000\,000}}+3}$$

Dakejillion (crorillion)

$$10^{3*10^{3*10^{30\,000\,000}}+3}$$

Hotejillion (awkillion)

$$10^{3*10^{3*10^{300\ 000\ 000}}+3}$$

Gijillion

$$10^{3*10^{3*10^{3\ 000\ 000\ 000}}+3}$$

Pentalogue

$$10\uparrow\uparrow 5$$
$$= 10^{10^{10^{10^{10}}}}$$

Dakijillion

$$10^{3*10^{3*10^{30\,000\,000\,000}}+3}$$
$$= 10^{3*10^{3*10^{3*10^{10}}}+3}$$

Hotijillion

$$10^{3*10^{3*10^{300\ 000\ 000\ 000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{11}}}+3}$$

Astillion

$$10^{3*10^{3*10^{3\ 000\ 000\ 000\ 000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{12}}}+3}$$

Poincaré recurrence time (high estimate)

$$10^{10^{10^{10^{10^{1.1}}}}}$$

Dakastillion

$$10^{3*10^{3*10^{30\,000\,000\,000\,000}}+3}$$
$$= 10^{3*10^{3*10^{3*10^{13}}}+3}$$

Hotastillion

$$10^{3*10^{3*10^{300\ 000\ 000\ 000\ 000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{14}}}+3}$$

Lunillion

$$10^{3*10^{3*10^{3\ 000\ 000\ 000\ 000\ 000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{15}}}+3}$$

Dakunillion

$$10^{3*10^{3*10^{30\ 000\ 000\ 000\ 000\ 000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{16}}}+3}$$

Hotunillion

$$10^{3*10^{3*10^{300\ 000\ 000\ 000\ 000\ 000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{17}}}+3}$$

Fermillion

$$10^{3*10^{3*10^{3\ 000\ 000\ 000\ 000\ 000\ 000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{18}}}+3}$$

Dakermillion

$$10^{3*10^{3*10^{30\ 000\ 000\ 000\ 000\ 000\ 000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{19}}}+3}$$

Hotermillion

$$10^{3*10^{3*10^{300\ 000\ 000\ 000\ 000\ 000\ 000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{20}}}+3}$$

Jovillion (neptillion)

$$10^{3*10^{3*10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{21}}}+3}$$

Dakovillion

$$10^{3*10^{3*10^{30\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{22}}}+3}$$

Hotovillion

$$10^{3*10^{3*10^{300\ 000\ 000\ 000\ 000\ 000\ 000\ 000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{23}}}+3}$$

Solillion

$$10^{3*10^{3*10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{24}}}+3}$$

Dakolillion

$$10^{3*10^{3*10^{30\,000\,000\,000\,000\,000\,000\,000\,000\,000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{25}}}+3}$$

Hotolillion

$$10^{3*10^{3*10^{300\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{26}}}+3}$$

Betillion

$$10^{3*10^{3*10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{27}}}+3}$$

Daketillion

$$10^{3*10^{3*10^{30\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{28}}}+3}$$

Hotetillion

$$10^{3*10^{3*10^{300\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{29}}}+3}$$

Glocillion

$$10^{3*10^{3*10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{30}}}+3}$$

Dakocillion

$$10^{3*10^{3*10^{30\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{31}}}+3}$$

Hotocillion

$$10^{3*10^{3*10^{300\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{32}}}+3}$$

Gaxillion

$$10^{3*10^{3*10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{33}}}+3}$$

Dakaxillion

$$10^{3*10^{3*10^{30\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{34}}}+3}$$

Hotaxillion

$$10^{3*10^{3*10^{300\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{35}}}+3}$$

Supillion

$$10^{3*10^{3*10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{36}}}+3}$$

Dakupillion

$$10^{3*10^{3*10^{30\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{37}}}+3}$$

Hotupillion

$$10^{3*10^{3*10^{300\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{38}}}+3}$$

Versillion

$$10^{3*10^{3*10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{39}}}+3}$$

Dakersillion

$$10^{3*10^{3*10^{30\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000\,000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{40}}}+3}$$

Hotersillion

$$10^{3*10^{3*10^{300\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{41}}}+3}$$

Multillion

$$10^{3*10^{3*10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{42}}}+3}$$

Dakultillion

$$10^{3*10^{3*10^{3*10^{43}}}+3}$$

Hotultillion

$$10^{3*10^{3*10^{3*10^{44}}}+3}$$

Pyrillion (metillion)

$$10^{3*10^{3*10^{3*10^{45}}}+3}$$

Guntillion (xevillion)

$$10^{3*10^{3*10^{3*10^{48}}}+3}$$

Kentrillion (hypillion)

$$10^{3*10^{3*10^{3*10^{51}}}+3}$$

Onlillion (omnillion)

$$10^{3*10^{3*10^{3*10^{54}}}+3}$$

Paptrillion (outillion)

$$10^{3*10^{3*10^{3*10^{57}}}+3}$$

Housillion (barrillion)

$$10^{3*10^{3*10^{3*10^{60}}}+3}$$

Horsillion (barrekalillion)

$$10^{3*10^{3*10^{3*10^{63}}}+3}$$

Trongillion (garrillion)

$$10^{3*10^{3*10^{3*10^{90}}}+3}$$

Googoltriplex (googolplexianite)

$$10^{10^{10^{10^{100}}}}$$

$$= \mathrm{E100\#4}$$

Batillion (aarrillion)

$$10^{3*10^{3*10^{3*10^{120}}}+3}$$

Handrillion (lunarrillion)

$$10^{3*10^{3*10^{3*10^{150}}}+3}$$

Mastillion (ferixillion)

$$10^{3*10^{3*10^{3*10^{180}}}+3}$$

Gotillion (javixillion)

$$10^{3*10^{3*10^{3*10^{210}}}+3}$$

Kortillion (solixillion)

$$10^{3*10^{3*10^{3*10^{240}}}+3}$$

Janillion (horillion)

$$10^{3*10^{3*10^{3*10^{300}}}+3}$$

Gigafaxul

$$(((200!)!)!)!$$
$$\approx 10^{10^{10^{2.95*10^{377}}}}$$

Mejanillion (mutillion)

$$10^{3*10^{3*10^{3*10^{600}}}+3}$$

Febrillion (hepillion)

$$10^{3*10^{3*10^{3*10^{3\,000}}}+3}$$

Marillion (ottillion)

$$10^{3*10^{3*10^{3*10^{3\ 000\ 000}}}+3}$$

Glocarillion

$$10^{3*10^{3*10^{3*10^{30\,000\,000}}}+3}$$

Hutarillion

$$10^{3*10^{3*10^{3*10^{300\ 000\ 000}}}+3}$$

Aprillion (neatillion)

$$10^{3*10^{3*10^{3*10^{3\ 000\ 000\ 000}}}+3}$$

Hexalogue

$$10\uparrow\uparrow 6$$
$$= 10^{10^{10^{10^{10^{10}}}}}$$

Glocaprillion

$$10^{3*10^{3*10^{3*10^{30\ 000\ 000\ 000}}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{3*10^{10}}}}+3}$$

Janaprillion

$$10^{3*10^{3*10^{3*10^{300\ 000\ 000\ 000}}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{3*10^{11}}}}+3}$$

Mayillion (deatillion)

$$10^{3*10^{3*10^{3*10^{3\ 000\ 000\ 000\ 000\ 000}}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{3*10^{12}}}}+3}$$

Glocayillion

$$10^{3*10^{3*10^{3*10^{30\ 000\ 000\ 000\ 000\ 000}}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{3*10^{13}}}}+3}$$

Joycian tetratri

$$g(3,3,3,3)$$
$$\approx 10^{10^{10^{10^{9.824*10^{13}}}}}$$

Janayillion

$$10^{3*10^{3*10^{3*10^{300\ 000\ 000\ 000\ 000}}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{3*10^{14}}}}+3}$$

Junillion (unatillion)

$$10^{3*10^{3*10^{3*10^{3\ 000\ 000\ 000\ 000\ 000}+3}}}$$

$$= 10^{3*10^{3*10^{3*10^{3*10^{15}}}}+3}$$

Julillion (entillion)

$$10^{3*10^{3*10^{3*10^{3\ 000\ 000\ 000\ 000\ 000\ 000}}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{18}}}+3}$$

Augillion (fitillion)

$$10^{3*10^{3*10^{3*10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000}}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{3*10^{21}}}}+3}$$

Septembillion (sytillion)

$$10^{3*10^{3*10^{3*10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{3*10^{24}}}}+3}$$

Octobillion (brontillion)

$$10^{3*10^{3*10^{3*10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{3*10^{27}}}}+3}$$

Novembillion (geopillion)

$$10^{3*10^{3*10^{3*10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{3*10^{30}}}}+3}$$

Decembillion (geopahepillion)

$$10^{3*10^{3*10^{3*10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{3*10^{33}}}}+3}$$

Undecembillion (geopottillion)

$$10^{3*10^{3*10^{3*10^{3}}}\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}+3$$

$$= 10^{3*10^{3*10^{3*10^{3*10^{36}}}}+3}$$

Duodecembillion (geopaneatillion)

$$10^{3*10^{3*10^{3*10^{3}}}\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}+3$$

$$= 10^{3*10^{3*10^{3*10^{3*10^{39}}}}}+3$$

Tredecembillion (geopadeatillion)

$$10^{3*10^{3*10^{3*10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{3*10^{42}}}}+3}$$

Geopunatillion

$$10^{3*10^{3*10^{3*10^{3*10^{45}}}}}+3$$

Geopentillion

$$10^{3*10^{3*10^{3*10^{3*10^{48}}}}+3}$$

Geopafitillion

$$10^{3*10^{3*10^{3*10^{3*10^{51}}}}}+3$$

Geopasytillion

$$10^{3*10^{3*10^{3*10^{3*10^{54}}}}}+3$$

Icosembillion

$$10^{3*10^{3*10^{3*10^{3*10^{60}}}}+3}$$

Triacontembillion (haprillion)

$$10^{3*10^{3*10^{3*10^{3*10^{90}}}}+3}$$

Googolquadriplex (googolplexianiteron)

$$10^{10^{10^{10^{10^{100}}}}}$$

$$= \mathrm{E100\#5}$$

Tetracontembillion (kyrillion)

$$10^{3*10^{3*10^{3*10^{3*10^{120}}}}+3}$$

Poincaré recurrence time (highest estimate)

$$\approx 10^{10^{10^{10^{10^{122}}}}}$$

$$= \text{E122\#5}$$

Pentacontembillion (pijillion)

$$10^{3*10^{3*10^{3*10^{3*10^{150}}}}+3}$$

Hexacontembillion (Saganillion)

$$10^{3*10^{3*10^{3*10^{3*10^{180}}}}+3}$$

Heptacontembillion (pectrillion)

$$10^{3*10^{3*10^{3*10^{3*10^{210}}}}+3}$$

Octacontembillion (nisabillion)

$$10^{3*10^{3*10^{3*10^{3*10^{240}}}}+3}$$

Ennacontembillion (zotzillion)

$$10^{3*10^{3*10^{3*10^{3*10^{270}}}}+3}$$

Terafaxul

$$((((200!)!)!)!)!$$
$$\approx 10^{10^{10^{10^{9.48*10^{378}}}}}$$

Italillion

$$10^{3*10^{3*10^{3*10^{3*10^{3\ 000}}}}+3}$$

Gothillion

$$10^{3*10^{3*10^{3*10^{3\ 000\ 000}}}+3}$$

Heptalogue

$$10\uparrow\uparrow 7 = 10^{10^{10^{10^{10^{10^{10}}}}}}$$

$$10^{10\,000\,000} = 10^{10^{10^{10^{10^{10}}}}}$$

Ugarillion

$$10^{3*10^{3*10^{3*10^{3*10^{3\ 000\ 000\ 000}}}}+3}$$

Persillion

$$10^{3*10^{3*10^{3*10^{3*10^{3}\ 000\ 000\ 000\ 000}}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{3*10^{3*10^{12}}}}}+3}$$

Deserillion

$$10^{3*10^{3*10^{3*10^{3*10^{3\ 000\ 000\ 000\ 000\ 000}}}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{3*10^{15}}}}+3}$$

Shavillion (alumillion)

$$10^{3*10^{3*10^{3*10^{3*10^{3\ 000\ 000\ 000\ 000\ 000\ 000}}}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{3*10^{18}}}}+3}$$

Osmanillion

$$10^{3*10^{3*10^{3*10^{3*10^{3\ 000\ 000\ 000\ 000\ 000\ 000\ 000}}}}+3}$$

$$= 10^{3*10^{3*10^{3*10^{3*10^{21}}}}+3}$$

Cyprillion

$$10^{3*10^{3*10^{3*10^{3*10^{3}}}}} \quad 3\ 000\ 000\ 000

Phoenillion

$$10^{3*10^{3*10^{3*10^{3*10^{3}}}}}$$ 000 000 000 000 000 000 000 000 000 000 $+3$

$$= 10^{3*10^{3*10^{3*10^{3*10^{27}}}}} +3$$

Kharoshillion

$$10^{3*10^{3*10^{3*10^{3*10^{3}}}}} \text{ 000 000 000 000 000 000 000 000 000 000 000} + 3$$

$$= 10^{3*10^{3*10^{3*10^{3*10^{30}}}}} + 3$$

Cuneifillion

$$10^{3*10^{3*10^{3*10^{3}}}\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000}+3$$

$$= 10^{3*10^{3*10^{3*10^{3*10^{33}}}}}+3$$

Googolquinplex

$$10^{10^{10^{10^{10^{100}}}}}$$

$$= \text{E100\#6}$$

Petafaxul

$$(((((200!)!)!)!)!)!$$
$$\approx \mathrm{E379\#6}$$

Octalogue

$$10\uparrow\uparrow 8$$

$$= 10^{10^{10^{10^{10^{10^{10^{10}}}}}}}$$

Googolsextiplex

$$\mathrm{E100\#7} = 10^{10^{10^{10^{10^{10^{100}}}}}}$$

Exafaxul

$$((((((200!)!)!)!)!)!)!$$
$$\approx \mathrm{E379\#7}$$

Ennalogue

$$10\uparrow\uparrow 9$$

$$= 10^{10^{10^{10^{10^{10^{10^{10^{10}}}}}}}}$$

Googolseptiplex

E100#8

$\approx f_3(9)$

(Fast-growing hierarchy)

Decker

$\{10,10,2\} = 10\uparrow\uparrow 10$

(BEAF)

$\approx f_2^9(30)$

Googoloctiplex

$\mathrm{E}100\#9$
$\approx f_3(10)$

Tralum

$$f_3(10) \approx \text{E3,086\#9}$$

Endekalogue

$$10\uparrow\uparrow 11$$
$$\approx f_3(10)$$

GoogolNoniplex

$\mathrm{E}100\#10$
$\approx f_3(11)$

Dodekalogue

$$10{\uparrow\uparrow}12$$
$$\approx f_3(11)$$

Googoldeciplex

E100#11
$\approx f_3(12)$

Triadekalogue

$$10{\uparrow\uparrow}13 \approx f_3(12)$$

Tetradekalogue

$$10{\uparrow\uparrow}14$$
$$\approx f_3(13)$$

Pentadekalogue

$$10\uparrow\uparrow 15$$
$$\approx f_3(14)$$

Hexadekalogue

$$10\uparrow\uparrow 16$$
$$\approx f_3(15)$$

Heptadekalogue

$$10{\uparrow\uparrow}17$$
$$\approx f_3(16)$$

Octadekalogue

$$10{\uparrow\uparrow}18$$
$$\approx f_3(17)$$

Ennadekalogue

$$10\uparrow\uparrow 19$$
$$\approx f_3(18)$$

Icosalogue

$$10\uparrow\uparrow 20$$
$$\approx f_3(19)$$

Qigfol

$$10{\uparrow\uparrow}25 \approx f_3(24)$$

Triantalogue

$$10{\uparrow\uparrow}30$$
$$\approx f_3(29)$$

Terantalogue

$$10\uparrow\uparrow 40$$
$$\approx f_3(39)$$

Penantalogue

$$10{\uparrow\uparrow}50$$
$$\approx f_3(49)$$

Exatalogue

$$10{\uparrow\uparrow}60$$
$$\approx f_3(59)$$

Eptatalogue

$$10{\uparrow\uparrow}70 \approx f_3(69)$$

Ogdatalogue

$$10{\uparrow\uparrow}80$$
$$\approx f_3(79)$$

Entatalogue

$$10\uparrow\uparrow 90$$
$$\approx f_3(89)$$

Giggol (hectalogue)

$$\{10,100,2\} = 10{\uparrow\uparrow}100$$
$$\approx f_3(99)$$

Megafugahundred

$$100{\uparrow\uparrow}100$$
$$\approx \mathrm{E201\#99}$$
$$\approx f_3(100)$$

Giggolunex

$$10\uparrow\uparrow 101$$
$$\approx f_3(100)$$

Grangol

$$\begin{aligned} &\mathrm{E100\#100} \\ &\approx 10{\uparrow\uparrow}101 \\ &\approx f_3(100) \end{aligned}$$

Big Box

$= 100[4]$
(Steinhaus-Moser notation)
$\approx$ E202#100
$\approx f_3(101)$

Giggolduunex

$$10{\uparrow\uparrow}102 \approx f_3(101)$$

Expofaxul

200!1
(Hyperfactorial array notation)
$\approx 10{\uparrow\uparrow}198$
$\approx f_3(197)$

Bighol

$$10\uparrow\uparrow 200$$
$$\approx f_3(199)$$

Mega

2[5]
(2 in a pentagon or circle)
$\approx 10\uparrow\uparrow 259$
$\approx f_3(258)$

Chilialogue

$$10{\uparrow\uparrow}1\,000 \approx f_3(999)$$

Great Big Box

$= 100[4]$
(Steinhaus-Moser notation)
$\approx$ E3 003#1 000
$\approx f_3(1\ 001)$

GoogolMilliplex

$\mathrm{E100\#1\ 001}$
$\approx f_3(1\ 001)$

Myrialogue

$$10{\uparrow\uparrow}10\,000 \approx f_3(9\,999)$$

Giggolgong

$$10\uparrow\uparrow 100\,000 \approx f_3(99\,999)$$

Chilia-chilialogue

$$10{\uparrow\uparrow}1\,000\,000 \approx f_3(999\,999)$$

Googolmegaplex

$$\mathrm{E100\#1\ 000\ 001} \approx f_3\,(1\ 000\ 000) = f_3(10^6)$$

Chilia-myrialogue

$$10{\uparrow\uparrow}10\,000\,000$$
$$\approx f_3(9\,999\,999)$$

Myria-myrialogue

$$10{\uparrow\uparrow}100\,000\,000 \approx f_3(99\,999\,999)$$

pete-9.c

$\approx f_3(386\ 201\ 107)$

pete-8.c

$\approx f_3(386\ 201\ 107)$

Joycian gagol

$$10{\uparrow\uparrow}1\,000\,000\,000 = 10{\uparrow\uparrow}10^9 \approx f_3(999\,999\,999)$$

Googolgigaplex

$$\mathrm{E100\#1\,000\,000\,001} \approx f_3(1\,000\,000\,000)$$

Dialogialogue

$$10\uparrow\uparrow 10^{10}$$
$$\approx f_3(10^{10} - 1)$$

Googolteraplex

$$\text{E100\#1 000 000 000 001} \approx f_3(10^{12})$$

Tritri

$$\{3,3,3\} = 3{\uparrow\uparrow\uparrow}3 = 3{\uparrow\uparrow}(3{\uparrow\uparrow}3)$$
$$= 3{\uparrow\uparrow}7\,625\,597\,484\,987$$
$$\approx f_3(7\,625\,597\,484\,986)$$

Googolpetaplex

$$\text{E100\#1 } 000\ 000\ 000\ 000\ 001 \approx f_3(10^{15})$$

Googolexaplex

$$\text{E100\#1 } 000\ 000\ 000\ 000\ 000\ 001 \approx f_3(10^{18})$$

Guppylogue

$$10\uparrow\uparrow 10^{20} \approx f_3(10^{20} - 1)$$

Googolzettaplex

E100#1 000 000 000 000 000 000 001
$\approx f_3(10^{21})$

Googolyottaplex

$$\text{E100\#1 000 000 000 000 000 000 000 000 001} \approx f_3(10^{24})$$

Minnowlogue

$$10{\uparrow\uparrow}10^{25} \approx f_3(10^{25} - 1)$$

Googolxennaplex

E100#1 000 000 000 000 000 000 000 000 001
$\approx f_3(10^{27})$

Googolvekaplex

E100#1 000 000 000 000 000 000 000 000 000 001

$\approx f_3(10^{30})$

Googolmekaplex

E100#1 000 000 000 000 000 000 000 000 000 000 001

$\approx f_3(10^{33})$

Gobylogue

$$10{\uparrow\uparrow}10^{35} \approx f_3(10^{35} - 1)$$

Gogologue

$$10\uparrow\uparrow 10^{50} \approx f_3(10^{50} - 1)$$

Ogologue

$$10{\uparrow\uparrow}10^{80} \approx f_3(10^{80}-1)$$

Zootzoot

$$10^{100}!1 \approx f_3(10^{100} - 1)$$

Googologue

$$10{\uparrow\uparrow}10^{100}$$
$$\approx f_3(10^{100}-1)$$

Googoldex

$$\mathrm{E100\#}10^{100} = \mathrm{E100\#1\#2}$$
$$\approx f_3(10^{100})$$

Grand Faxul

$((...((200!)!)!...)!)!$

(with 200! ()'s)

$\approx$ E375#1#2

$\approx f_3(f_2(1\ 235))$

Goomolduex

$$10{\uparrow\uparrow}10^{1\,000} \approx f_3(10^{1\,000} - 1)$$

Goomyrolduex

$$10{\uparrow\uparrow}10^{10\,000} \approx f_3(10^{10\,000} - 1)$$

Gooqnolplexiduex

$$10{\uparrow\uparrow}10^{100\,000} \approx f_3(10^{100\,000} - 1)$$

Trialogialogue

$$\mathrm{E1\#3\#2} = 10{\uparrow\uparrow}10{\uparrow\uparrow}3$$
$$\approx f_3(10^{10^{10}} - 1)$$

Zootzootplex

$$10^{10^{100}}!1$$
$$\approx f_3(10^{10^{100}} - 1)$$

Googolplexilogue

$$10{\uparrow\uparrow}10^{10^{100}}$$
$$\approx f_3(10^{10^{100}} - 1)$$

Googolplexidex

$$\begin{aligned} \text{E100\#2\#2} &= \text{E100\#(E100\#2)} \\ &\approx f_3(10^{10^{100}}) \end{aligned}$$

Grand Kilofaxul

$$200!(200!)!+1$$
$$\approx \{10,\{10,\{10,377\}\},2\} = 10{\uparrow\uparrow}(10{\uparrow}(10{\uparrow}377))$$
$$\approx f_3\left(f_2\left(f_2\left(1\,235\right)\right)\right)$$

Goomolplexiduex

$$\{10,\{10,\{10,1\,000\}\},2\}$$
$$= 10{\uparrow\uparrow}10{\uparrow}(10{\uparrow}1\,000))$$
$$\approx f_3(10^{10^{1\,000}}-1)$$

Tetralogialogue

$$\begin{aligned} \mathrm{E1\#4\#2} &= 10{\uparrow\uparrow}10{\uparrow\uparrow}4 \\ &\approx f_3\left(f_2^3(28)\right) \end{aligned}$$

Googolduplexilogue

$$\{10,\{10,\{10,\{10,100\}\}\},2\}$$
$$= 10{\uparrow\uparrow}(10{\uparrow}(10{\uparrow}(10{\uparrow}100)))$$
$$\approx f_3((10 \uparrow\uparrow 4) - 1)$$

Googolduplexidex

$$\begin{aligned}&\text{E100\#(E100\#3)}\\&= \text{E100\#3\#2}\\&\approx f_3\left(f_2^3\left(324\right)\right)\end{aligned}$$

Grand Megafaxul

$$200!^{((200!)!)!+1}$$
$$\approx \mathrm{E10\#(E377\#3)}$$
$$\approx f_3\left(f_2^3\left(1\,235\right)\right)$$

Pentalogialogue

$$\begin{aligned}\mathrm{E1\#(E1\#5)} &= \mathrm{E1\#5\#2} \\ &= 10{\uparrow\uparrow}10{\uparrow\uparrow}5 \\ &\approx f_3\left(f_2^4(28)\right)\end{aligned}$$

Googoltriplexidex

$$\text{E100\#(E100\#4)}$$
$$\text{E100\#4\#2}$$
$$\approx f_3\left(f_2^4(324)\right)$$

Grand Gigafaxul

$$200!^{(((200!)!)!)!+1}$$
$$\approx \mathrm{E10\#(E377\#4)}$$
$$\approx f_3\left(f_2^4\left(1\,235\right)\right)$$

Hexalogialogue

$$\begin{aligned}\mathrm{E1\#6\#2} &= \mathrm{E1\#(E1\#6)} \\ &= 10{\uparrow\uparrow}10{\uparrow\uparrow}6 \\ &\approx f_3\left(f_2^5(28)\right)\end{aligned}$$

Googolquadriplexidex

$$\begin{aligned}\mathrm{E100\#5\#2} &= \mathrm{E100\#(E100\#5)} \\ &\approx f_3\left(f_2^5(324)\right)\end{aligned}$$

Grand Terafaxul

$$200!^{((((200!)!)!)!)!+1}$$
$$\approx \text{E10\#(E377\#5)}$$
$$\approx f_3\left(f_2^5\left(1\,235\right)\right)$$

Heptalogialogue

$$\begin{aligned}\mathrm{E1\#7\#2} &= \mathrm{E1\#(E1\#7)} \\ &= 10{\uparrow\uparrow}10{\uparrow\uparrow}7 \\ &\approx f_3\left(f_2^6(28)\right)\end{aligned}$$

Googolquintiplexidex

$$\begin{aligned}\mathrm{E100\#6\#2} &= \mathrm{E100\#(E100\#6)} \\ &\approx f_3\left(f_2^6(324)\right)\end{aligned}$$

Grand Petafaxul

$$200!^{(((((200!)!)!)!)!)!+1}$$
$$\approx \mathrm{E10\#(E377\#6)}$$
$$\approx f_3\left(f_2^6\left(1\,235\right)\right)$$

Octalogialogue

$$\begin{aligned}\mathrm{E1\#8\#2} &= \mathrm{E1\#(E1\#8)} \\ &= 10{\uparrow\uparrow}10{\uparrow\uparrow}8 \\ &\approx f_3\left(f_2^7(28)\right)\end{aligned}$$

Googolsextiplexidex

$$\begin{aligned} \mathrm{E100\#7\#2} &= \mathrm{E100\#(E100\#7)} \\ &\approx f_3\left(f_2^7\left(324\right)\right) \end{aligned}$$

Grand Exafaxul

$$200!^{(((((200!)!)!)!)!)!)!+1}$$
$$\approx \text{E10\#(E377\#7)}$$
$$\approx f_3\left(f_2^7\left(1\,235\right)\right)$$

Ennalogialogue

$$\begin{aligned} \mathrm{E1\#9\#2} &= \mathrm{E1\#(E1\#9)} \\ &= 10{\uparrow\uparrow}10{\uparrow\uparrow}9 \\ &\approx f_3\left(f_2^8(28)\right) \end{aligned}$$

Googolseptiplexidex

$$\begin{aligned} \mathrm{E100\#8\#2} &= \mathrm{E100\#(E100\#8)} \\ &\approx f_3\left(f_2^8(324)\right) \end{aligned}$$

Tria-taxis (dekalogialogue)

$$\begin{aligned} \mathrm{E1\#1\#3} &= \mathrm{E1\#(E1\#1\#2)} = \mathrm{E1\#(E1\#10)} \\ &= 10{\uparrow\uparrow}10{\uparrow\uparrow}10 \\ &\approx f_4(3) \end{aligned}$$

Googoloctiplexidex

$$\begin{aligned} \mathrm{E100\#9\#2} &= \mathrm{E100\#(E100\#9)} \\ &\approx f_3\left(f_2^9(324)\right) \end{aligned}$$

GoogolnoniplexidexE100#10#2 = E100#(E100#10)
$$\approx f_3\left(f_2^{10}(324)\right)$$

Googoldeciplexidex

$$\begin{aligned}\text{E100\#11\#2} &= \text{E100\#(E100\#11)} \\ &\approx f_3\left(f_2^{11}(324)\right)\end{aligned}$$

Doovolplex

$$\begin{aligned} \text{E1\#20\#2} &= \text{E1\#(E1\#20)} \\ &= 10{\uparrow\uparrow}10{\uparrow\uparrow}20 \\ &\approx f_3^2(19) \end{aligned}$$

Dooqtolplex

$$\begin{aligned}\text{E1\#25\#2} &= \text{E1\#(E1\#25)} \\ &= 10{\uparrow\uparrow}10{\uparrow\uparrow}25 \\ &\approx f_3^2(24)\end{aligned}$$

Doohfolplex

$$\begin{aligned} \text{E1\#50\#2} &= \text{E1\#(E1\#50)} \\ &= 10{\uparrow\uparrow}10{\uparrow\uparrow}50 \\ &\approx f_3^2(49) \end{aligned}$$

Giggolplex (hectalogialogue)

$$\begin{aligned} \mathrm{E1\#100\#2} &= \mathrm{E1\#(E1\#100)} \\ &= 10{\uparrow\uparrow}10{\uparrow\uparrow}100 \\ &\approx f_3^2(100) \end{aligned}$$

Grangoldex

$$\begin{aligned}\text{E100\#100\#2} &= \text{E100\#(E100\#100)} \\ &\approx 10{\uparrow\uparrow}10{\uparrow\uparrow}101 \\ &\approx f_3^2(100)\end{aligned}$$

Kiloexpofaxul

$$(200!1)!1$$
$$\approx 10{\uparrow\uparrow}10{\uparrow\uparrow}198$$
$$\approx f_3^2(200)$$

Chilialogialogue

$$10{\uparrow\uparrow}10{\uparrow\uparrow}1\,000 \approx f_3^2(999)$$

Grangoldexichime

$$\begin{aligned}\text{E1 000\#1 000\#2} &= \text{E1 000\#(E1 000\#1 000)} \\ &\approx f_3^2(1000)\end{aligned}$$

Myrialogialogue

$$10{\uparrow\uparrow}10{\uparrow\uparrow}10\,000 \approx f_3^2(9\,999)$$

Octadialogialogue

$$10{\uparrow\uparrow}10{\uparrow\uparrow}100\ 000\ 000$$
$$\approx f_3^2(100\ 000\ 000)$$

Goodcolduduex

$$10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow}10 \approx f_3^2(10^{10})$$

Great tritri

$$3\uparrow\uparrow\uparrow 4 = 3\uparrow\uparrow 3\uparrow\uparrow 3\uparrow\uparrow 3$$
$$\approx f_4(3)$$

Sedeniadialogialogue

$$10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow}16 \approx f_3^2\left(f_2(47)\right)$$

Googolstackstack

$$10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow}100 \approx f_3^2\left(f_2\left(324\right)\right)$$

Googoldudex

$$\begin{aligned} \text{E100\#1\#3} &= \text{E100\#(E100\#(E100))} \\ &\approx f_3^2\left(f_2\left(325\right)\right) \end{aligned}$$

Bigrand Faxul

$$200!^{200!200!+1+1}$$
$$\approx 10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow}379$$
$$\approx f_3^2\left(f_2\left(1\,235\right)\right)$$

Trialogialogialogue

$$\mathrm{E1\#3\#3} = \mathrm{E1\#(E1\#(E1\#3))}$$
$$10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}3$$
$$\approx f_3^2(10^{10^{10}})$$

Grand Mega (triton)

$3[5]$

3 in a pentagon (or circle)

$\approx 10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow}10{\uparrow}40$

$\approx f_3^2\left(10^{10^{40}}\right)$

Googolplexiduduex

$$10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow}10{\uparrow}100 \approx f_3^2\left(f_2^2(324)\right)$$

Googolplexidudex

$$\begin{aligned}\text{E100\#2\#3} &= \text{E100\#(E100\#(E100\#2))} \\ &\approx f_3^2\left(f_2^2(325)\right)\end{aligned}$$

Tettro

$$4\uparrow\uparrow\uparrow 4 = 4\uparrow\uparrow 4\uparrow\uparrow 4\uparrow\uparrow 4$$
$$\approx f_4(4)$$

Tetralogialogialogue

$$\mathrm{E1\#4\#3} = \mathrm{E1\#(E1\#(E1\#4))}$$
$$10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}4$$
$$\approx f_3^2\left(f_2^3\left(28\right)\right)$$

Googolduplexidudex

$$\begin{aligned}\text{E100\#3\#3} &= \text{E100\#(E100\#(E100\#3))} \\ &\approx f_3^2\left(f_2^3\left(324\right)\right)\end{aligned}$$

Pentalogialogialogue

$$\mathrm{E1\#5\#3} = \mathrm{E1\#(E1\#(E1\#5))}$$
$$10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}5$$
$$\approx f_3^2\left(f_2^4(28)\right)$$

Googoltriplexidudex

$$\begin{aligned}\mathrm{E100\#4\#3} &= \mathrm{E100\#(E100\#(E100\#4))} \\ &\approx f_3^2\left(f_2^4\left(324\right)\right)\end{aligned}$$

Hexalogialogialogue

$$\mathrm{E1\#6\#3} = \mathrm{E1\#(E1\#(E1\#6))}$$
$$10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}6$$
$$\approx f_3^2\left(f_2^5(28)\right)$$

Googolquadriplexiduduex

$$\begin{aligned}\text{E100\#5\#3} &= \text{E100\#(E100\#(E100\#5))} \\ &\approx f_3^2\left(f_2^5\left(324\right)\right)\end{aligned}$$

Heptalogialogialogue

$$\mathrm{E1\#7\#3} = \mathrm{E1\#(E1\#(E1\#7))}$$
$$10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}7$$
$$\approx f_3^2\left(f_2^6(28)\right)$$

Googolquintiplexidudex

$$\begin{aligned}\text{E100\#6\#3} &= \text{E100\#(E100\#(E100\#6))} \\ &\approx f_3^2\left(f_2^6(324)\right)\end{aligned}$$

Octalogialogialogue

$$\mathrm{E1\#8\#3} = \mathrm{E1\#(E1\#(E1\#8))}$$
$$10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}8$$
$$\approx f_3^2\left(f_2^7(28)\right)$$

Googolsextiplexidudex

$$\begin{aligned}\text{E100\#7\#3} &= \text{E100\#(E100\#(E100\#7))} \\ &\approx f_3^2\left(f_2^7\left(324\right)\right)\end{aligned}$$

Ennalogialogialogue

$$\begin{gathered}\mathrm{E1\#9\#3} = \mathrm{E1\#(E1\#(E1\#9))} \\ 10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}9 \\ \approx f_3^2\left(f_2^8\left(28\right)\right)\end{gathered}$$

Googolseptiplexidudex

$$\begin{aligned}\mathrm{E100\#8\#3} &= \mathrm{E100\#(E100\#(E100\#8))} \\ &\approx f_3^2\left(f_2^8\left(324\right)\right)\end{aligned}$$

Tetra-taxis (dekalogialogialogue)

$$\mathrm{E1\#10\#3} = \mathrm{E1\#(E1\#(E1\#10))}$$
$$10{\uparrow\uparrow\uparrow}4 = 10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10$$
$$\approx f_3^2\left(f_2^9(28)\right)$$

Googoloctiplexidudex

$$\begin{aligned}\text{E100\#9\#3} &= \text{E100\#(E100\#(E100\#9))} \\ &\approx f_3^2\left(f_2^9(324)\right)\end{aligned}$$

GoogolnoniplexidudeX

$$\begin{aligned}\mathrm{E100\#10\#3} &= \mathrm{E100\#(E100\#(E100\#10))} \\ &\approx f_3^2\left(f_2^{10}(324)\right)\end{aligned}$$

Googoldeciplexidudex

$$\begin{aligned}\text{E100\#11\#3} &= \text{E100\#(E100\#(E100\#11))} \\ &\approx f_3^2\left(f_2^{11}(324)\right)\end{aligned}$$

Giggolduplex (hectalogialogialogue)

$$\mathrm{E1\#100\#3} = \mathrm{E1\#(E1\#(E1\#100))}$$
$$10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}100$$
$$\approx f_3^3(100) = f_3(f_3\left(f_3(100)\right)$$

Grangoldudex

$$\begin{aligned}\text{E100\#100\#3} &= \text{E100\#(E100\#(E100\#100))} \\ &\approx f_3^3(100)\end{aligned}$$

Megaexpofaxul

$$((200!1)!1)!1$$
$$\approx \text{E10\#197\#3}$$
$$\approx f_3^3(200)$$

Doomolduplex (Chilialogialogialogue)

$$\mathrm{E1\#1000\#3} = \mathrm{E1\#(E1\#(E1\#1000))}$$
$$10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}1000$$
$$\approx f_3^3(999)$$

Myrialogialogialogue

$$\mathrm{E1\#10\,000\#3}$$
$$10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10\,000$$
$$\approx f_3^3\,(9\,999)$$

Googoltriduex (Googolgoogoltriplex)

$$\text{E1\#(E100)\#3}$$

$$10\uparrow\uparrow 10\uparrow\uparrow 10\uparrow\uparrow 10\uparrow 100$$

$$\approx f_3^3\left(f_2(324)\right)$$

Googoltridex

$$\begin{aligned}\mathrm{E100\#1\#4} &= \mathrm{E100\#(E100\#(E100\#(E100)))} \\ &\approx f_3^3\left(f_2\left(324\right)\right)\end{aligned}$$

Googolplexitridex

$$\begin{aligned}\text{E100\#2\#4} &= \text{E100\#(E100\#(E100\#(E100\#2)))} \\ &\approx f_3^3\left(f_2^2(324)\right)\end{aligned}$$

Googolduplexitridex

$$\begin{aligned}\text{E100\#3\#4} &= \text{E100\#(E100\#(E100\#(E100\#3)))} \\ &\approx f_3^3\left(f_2^3\left(324\right)\right)\end{aligned}$$

Great Mega

4[5]

4 in a pentagon (or circle)

$\approx 10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow}10{\uparrow}10{\uparrow}617$

$\approx f_3^3\left(f_2^3(617)\right)$

Penta-taxis

$$\mathrm{E1\#1\#5} = \mathrm{E1\#(E1\#(E1\#(E1\#(10))))}$$
$$10{\uparrow\uparrow\uparrow}5 = 10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10$$
$$\approx f_4(5)$$

Giggoltreplex

$$\mathrm{E1\#100\#4} = \mathrm{E1\#(E1\#(E1\#(E1\#100)))}$$
$$10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}100$$
$$\approx f_3^4(99)$$

Grangoltridex

$$\begin{gathered}\text{E100\#100\#4} = \\ \text{E100\#(E100\#(E100\#(E100\#100)))} \\ \approx f_3^4(100)\end{gathered}$$

Gigaexpofaxul

$$(((200!1)!1)!1)!1$$
$$\approx \text{E10\#197\#4}$$
$$\approx f_3^4(200)$$

Googolquadridex

$$\begin{aligned}&\mathrm{E100\#1\#5}\\&\approx f_3^4\left(f_2\left(324\right)\right)\end{aligned}$$

Googolplexiquadridex

$$\begin{aligned}&\mathrm{E}100\#2\#5\\ &\approx f_3^4\left(f_2^2\left(324\right)\right)\end{aligned}$$

Googolduplexiquadridex

$$\begin{gathered}\mathrm{E}100\#3\#5 \\ \approx f_3^4\left(f_2^3(324)\right)\end{gathered}$$

Gong Mega

5[5]

5 in a pentagon (or circle)

$\approx 10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow}10{\uparrow}10{\uparrow}10{\uparrow}10\ 921$

$\approx f_3^4\left(f_2^4\left(10\ 921\right)\right)$

Hexa-taxis

$$\mathrm{E1\#1\#6}$$
$$10{\uparrow\uparrow\uparrow}6 = 10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10$$
$$\approx f_4(6)$$

Giggolquadruplex

$$\mathrm{E1\#100\#5} \approx f_3^5(99)$$

Grangolquadridex

$$\mathrm{E100\#100\#5} \approx f_3^5(100)$$

Teraexpofaxul

$$((((200!1)!1)!1)!1)!1$$
$$\approx \text{E10\#197\#5}$$
$$\approx f_3^5(200)$$

Googolquintidex

$$\mathrm{E100\#1\#6} \approx f_3^5\left(f_2\left(324\right)\right)$$

Googolplexiquintidex

$$\mathrm{E}100\#2\#6 \approx f_3^5\left(f_2^2(324)\right)$$

Googolduplexiquintidex

$$\begin{aligned} &\mathrm{E}100\#3\#6 \\ &\approx f_3^5\left(f_2^3\left(324\right)\right) \end{aligned}$$

Hexomega

6[5]
6 in a pentagon (or circle)
$\approx$ E217 832#5#6
$\approx f_4(7)$

Hepta-taxis

$$\mathrm{E1\#1\#7}$$
$$10{\uparrow\uparrow\uparrow}7 = 10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10$$
$$\approx f_4(7)$$

Giggolquinplex

$$\mathrm{E1\#100\#6} \approx f_3^6(99)$$

Grangolquintidex

$$\mathrm{E100\#100\#6} \approx f_3^6(100)$$

Petaexpofaxul

$$(((((200!1)!1)!1)!1)!1)!1$$
$$\approx \mathrm{E10\#197\#6}$$
$$\approx f_3^6(200)$$

Googolsextidex

$$\mathrm{E100\#1\#7} \approx f_3^6\left(f_2\left(324\right)\right)$$

Heptomega

$7[5]$
7 in a pentagon (or circle)
$\approx 7{\uparrow\uparrow\uparrow}8$
$\approx f_4(8)$

Octa-taxis

$$\mathrm{E}1\#1\#8$$
$$10{\uparrow\uparrow\uparrow}8 =$$
$$10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10$$
$$\approx f_4(8)$$

Giggolsexplex

$$\mathrm{E1\#100\#7} \approx f_3^7(99)$$

Grangolsextidex

$$\mathrm{E100\#100\#7} \approx f_3^7(100)$$

Exaexpofaxul

$$((((((200!1)!1)!1)!1)!1)!1)!1)!1$$
$$\approx \text{E10\#197\#7}$$
$$\approx f_3^7(200)$$

Googolseptidex

$$\mathrm{E100\#1\#8} \approx f_3^7\left(f_2\left(324\right)\right)$$

Enna-taxis

$$\begin{aligned} &\mathrm{E1\#1\#9} \\ &= 10{\uparrow\uparrow\uparrow}9 \\ &\approx f_4(9) \end{aligned}$$

Giggolseptenplex

$$\mathrm{E1\#100\#8} \approx f_3^8(99)$$

Grangolseptidex

$$\mathrm{E100\#100\#8} \approx f_3^8(100)$$

Googoloctidex

$$\mathrm{E100\#1\#9} \approx f_3^8\left(f_2\left(324\right)\right)$$

Deka-taxis

$$\begin{aligned} &\mathrm{E1\#1\#10} \\ &= 10{\uparrow\uparrow\uparrow}10 \\ &\approx f_4(10) \end{aligned}$$

Giggoloctoplex

$$\mathrm{E1\#100\#9} \approx f_3^9(99)$$

Grangoloctidex

$$\mathrm{E1\#100\#9} \approx f_3^9(100)$$

GoogolnonidexE100#1#10

$$\approx f_3^9\left(f_2\left(324\right)\right)$$

Quadralum

$f_4(10)$

Megiston

$10[5]$
10 in a pentagon (or circle)
$\approx 10{\uparrow\uparrow\uparrow}11$
$\approx f_4(10)$

Endeka-taxis

$$10{\uparrow\uparrow\uparrow}11$$
$$\approx f_4(11)$$

Giggolnovemplex

$$\mathrm{E1\#100\#10} \approx f_3^{10}(99)$$

GrangolInonidex

$$\mathrm{E100\#100\#10} \approx f_3^{10}(100)$$

Googoldecidex

$$\mathrm{E100\#1\#11} \approx f_3^{10}\left(f_2\left(324\right)\right)$$

Dodeka-taxis

$$10{\uparrow\uparrow\uparrow}12$$
$$\approx f_4(12)$$

Giggoldecaplex

$$\mathrm{E1\#100\#11} \approx f_3^{11}(99)$$

Grangoldecidex

$$\mathrm{E100\#100\#11} \approx f_3^{11}(100)$$

Toovol

$$10\uparrow\uparrow\uparrow 20 \approx f_4(20)$$

Tootrol

$$10{\uparrow\uparrow\uparrow}30 \approx f_4(30)$$

Tooqrol

$$10{\uparrow\uparrow\uparrow}40 \approx f_4(40)$$

Hagfol

$$10{\uparrow\uparrow\uparrow}50 \approx f_4(50)$$

Genu's number II

$$(70!2)*(35!2)*(812\ 500^{812\ 501}) \approx 10{\uparrow\uparrow\uparrow}69 \approx f_4(69)$$

Gaggol (hecta-taxis)

$$\{10,100,3\}$$
$$= 10\uparrow\uparrow\uparrow 100$$
$$\approx f_4(100)$$

Gaggolduex

$$10{\uparrow\uparrow\uparrow}101 \approx f_4(100)$$

Greagol

$$\mathrm{E}100\#100\#100 \approx f_4(100)$$

Gaggolduduex

$$10{\uparrow\uparrow\uparrow}102$$
$$\approx f_4(101)$$

Greagoldex

$$\mathrm{E100\#100\#101} \approx f_4(101)$$

Gaggoldecaduex

$$10{\uparrow\uparrow\uparrow}110$$
$$\approx f_4(109)$$

Tetrofaxul

$$200!2$$
$$\approx 10\uparrow\uparrow\uparrow 198$$
$$\approx f_4(200)$$

Tooducol

$$10{\uparrow\uparrow\uparrow}200 \approx f_4(200)$$

Chilia-taxis

$$\mathrm{E1\#1\#1\,000}$$
$$10{\uparrow\uparrow\uparrow}1000$$
$$\approx f_4(1\,000)$$

Myria-taxis

$$\mathrm{E1\#1\#10\,000}$$
$$10{\uparrow\uparrow\uparrow}10\,000$$
$$\approx f_4(10\,000)$$

Gaggolgong

$$10{\uparrow\uparrow\uparrow}100\ 000$$
$$\approx f_4(100\ 000)$$

Gaggolthrong

$$10{\uparrow\uparrow\uparrow}100\,000\,000\,000$$
$$\approx f_4(100\,000\,000\,000)$$

Googolthrex

$$\begin{aligned}\text{E100\#1\#1\#2} &= \text{E100\#1\#(E100)} \\ &\approx f_4\left(f_2\left(324\right)\right)\end{aligned}$$

Folkman's number

$$2{\uparrow\uparrow\uparrow}2^{901} \approx f_4\left(f_2\left(892\right)\right)$$

Googolplexithrex

$$\begin{aligned}\mathrm{E100\#2\#1\#2} &= \mathrm{E100\#1\#(E100\#2)} \\ &\approx f_4\left(f_2^2\left(324\right)\right)\end{aligned}$$

Giggolthrex

$$10{\uparrow\uparrow\uparrow}10{\uparrow\uparrow}100 \approx f_4\left(f_3\left(100\right)\right)$$

Grangolthrex

$$\begin{aligned}&\mathrm{E100\#100\#1\#2}\\&\approx f_4\left(f_3\left(100\right)\right)\end{aligned}$$

A-ooga

2[6]
2 in a hexagon
$\approx$ E622#512#1#2
$\approx f_4\left(f_3\left(260\right)\right)$

Grahal (triteto)

$$
\begin{aligned}
g_1 &= 3\uparrow\uparrow\uparrow\uparrow 3 \\
&= 3\uparrow\uparrow\uparrow 3\uparrow\uparrow\uparrow 3 \\
&\approx f_4\left(f_3\left(f_2(37)\right)\right)
\end{aligned}
$$

Googolduexitrex

$$10{\uparrow\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow}100 \approx f_4\left(f_3\left(f_2\left(324\right)\right)\right)$$

Googoldexithrex

$$\mathrm{E100\#1\#2\#2} \approx f_4\left(f_3\left(f_2\left(324\right)\right)\right)$$

Googolplexiduexitrex

$$10{\uparrow\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow}10{\uparrow}100 \approx f_4\left(f_3\left(f_2^2(100)\right)\right)$$

Googolduplexiduexitrex

$$10{\uparrow\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow}10{\uparrow}10{\uparrow}100$$
$$\approx f_4\left(f_3\left(f_2^3(100)\right)\right)$$

Triataxia-taxis

E1#1#3#2

$$10\uparrow\uparrow\uparrow 10\uparrow\uparrow 10\uparrow\uparrow 10$$

$$\approx f_4\left(f_3^2(10)\right)$$

Doogolplexitrex

$$10{\uparrow\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}100 \approx f_4\left(f_3^2(100)\right)$$

Grangoldexithrex

$$\begin{aligned}&\mathrm{E100\#100\#2\#2}\\&\approx f_4\left(f_3^2(100)\right)\end{aligned}$$

Grand Megision

$$3[5][5] =$$
$$\approx \{3,3,4\} = 3{\uparrow\uparrow\uparrow\uparrow}3$$
$$\approx f_5(3)$$
$$3$$

Googolplexiduduexitrex

$$10{\uparrow\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow}10{\uparrow}100 \approx f_4\left(f_3^2\left(f_1^2(100)\right)\right)$$

Doogolduplexitrex

$$10{\uparrow\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}100 \approx f_4\left(f_3^3(100)\right)$$

Grangoldudexithrex

$$\mathrm{E100\#100\#3\#2} \approx f_4\left(f_3^3(100)\right)$$

Great Megision

$$
\begin{gathered}
4[5][5] = \\
\approx \{4,3,4\} = 4{\uparrow}{\uparrow}{\uparrow}{\uparrow}3 \\
\approx f_5(3) \\
4
\end{gathered}
$$

Tooqnolplex

$$10\uparrow\uparrow\uparrow 10\uparrow\uparrow\uparrow 5 \approx f_4^2(5)$$

Tria-petaxis

$$
\begin{aligned}
&10{\uparrow}{\uparrow}{\uparrow}{\uparrow}3 \\
&= 10{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}10 \\
&\approx f_4^2(10)
\end{aligned}
$$

Gaggolplex

$$10{\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow}100 \approx f_4^2(100)$$

Greagolthrex

$$\mathrm{E100\#100\#100\#2} \approx f_4^2(100)$$

Kilotetrofaxul

$$(200!2)!2$$
$$\approx 10{\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow}198$$
$$\approx f_4^2(200)$$

Doodcoldutrex

$$10\uparrow\uparrow\uparrow 10\uparrow\uparrow\uparrow 10\uparrow\uparrow 10 \approx f_4^2\left(f_3\left(10\right)\right)$$

Grangolduthrex

$$\mathrm{E100\#100\#1\#3} \approx f_4^2\left(f_3\left(100\right)\right)$$

Giggolduthrex

$$10{\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow}10{\uparrow\uparrow}100 \approx f_4^2\left(f_3\left(100\right)\right)$$

Megisiduon

$$2[5][5][5]$$
$$\approx \{2,4,4\} = 2{\uparrow}{\uparrow}{\uparrow}{\uparrow}4$$
$$< f_5(4)$$

Triataxiataxia-taxis

$$\begin{aligned}&\mathrm{E1\#1\#3\#3}\\&\approx f_4^2\left(f_3^2\left(10\right)\right)\end{aligned}$$

Doogolplexidutrex

$$10{\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}100 \approx f_4^2\left(f_3^2(100)\right)$$

Grangoldexiduthrex

$$\mathrm{E100\#100\#2\#3} \approx f_4^2\left(f_3^2\left(100\right)\right)$$

Grand Megisiduon

$3[6] = 3[5][5][5]$

3 in a hexagon

$\approx \{3,4,4\} = 3{\uparrow}{\uparrow}{\uparrow}{\uparrow}4$

$\approx f_5(4)$

Tritet

$$\{4,4,4\}$$
$$= 4\uparrow\uparrow\uparrow\uparrow 4$$
$$\approx f_5(4)$$

Grangoldudexiduthrex

$$\mathrm{E100\#100\#3\#3} \approx f_4^2\left(f_3^3\left(100\right)\right)$$

Tetra-petaxis

$$10{\uparrow\uparrow\uparrow\uparrow}4$$
$$\approx f_5(4)$$

Gaggolduplex

$$10{\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow}100 \approx f_4^3(100)$$

Greagolduthrex

$$\mathrm{E100\#100\#100\#3} \approx f_4^3(100)$$

Megatetrofaxul

$$((200!2)!2)!2$$
$$\approx \mathrm{E10\#10\#197\#3}$$
$$\approx f_4^3(200)$$

Giggoltrethrex

$$10{\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow}10{\uparrow\uparrow}100 \approx f_4^3\left(f_3\left(100\right)\right)$$

Grangoltrithrex

$$\mathrm{E100\#100\#1\#4} \approx f_4^3\left(f_3\left(100\right)\right)$$

Doogolplexitritrex

$$10{\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}100 \approx f_4^3\left(f_3^2(100)\right)$$

Grangoldexitrithrex

$$\mathrm{E100\#100\#2\#4} \approx f_4^3\left(f_3^2(100)\right)$$

Grangoldudexitrithrex

$$\mathrm{E100\#100\#3\#4} \approx f_4^3\left(f_3^3\left(100\right)\right)$$

Great Megisitruon

$4[6]$

4 in a hexagon

$\approx \{4,5,4\} = 4{\uparrow}{\uparrow}{\uparrow}{\uparrow}5$

$\approx f_\omega(5) = f_5(5)$

Penta-petaxis

$$10{\uparrow\uparrow\uparrow\uparrow}5$$
$$\approx f_\omega(5) = f_5(5)$$

Gaggoltreplex

$$10\uparrow\uparrow\uparrow 10\uparrow\uparrow\uparrow 10\uparrow\uparrow\uparrow 10\uparrow\uparrow\uparrow 100 \approx f_4^4(100)$$

Greagoltrithrex

$$\mathrm{E100\#100\#100\#4} \approx f_4^4(100)$$

Gigatetrofaxul

$$(((200!2)!2)!2)!2$$
$$\approx \mathrm{E10\#10\#197\#4}$$
$$\approx f_4^4(200)$$

Giggolquadruthrex

$$10{\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow}10{\uparrow\uparrow}100 \approx f_4^4\left(f_3\left(100\right)\right)$$

Grangolquadrithrex

$$\begin{aligned} &\mathrm{E100\#100\#1\#5} \\ &\approx f_4^4\left(f_3\left(100\right)\right) \end{aligned}$$

Grangoldexiquadrithrex

$$\begin{aligned} &\mathrm{E100\#100\#2\#5} \\ &\approx f_4^4\left(f_3^2\left(100\right)\right) \end{aligned}$$

Grangoldudexiquadrithrex

$$\begin{aligned} &\mathrm{E100\#100\#3\#5} \\ &\approx f_4^4\left(f_3^3\left(100\right)\right) \end{aligned}$$

Hexa-petaxis

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}6$$
$$\approx f_5(6)$$

Gaggolquadruplex

$$E1\#1\#100\#5 \approx f_4^5(100)$$

Greagolquadrithrex

$$E100\#100\#100\#5 \approx f_4^5(100)$$

Teratetrofaxul

$$((((200!2)!2)!2)!2)!2$$
$$\approx \text{E10\#10\#197\#5}$$
$$\approx f_4^5(200)$$

Grangolquintithrex

$$\begin{aligned}&\mathrm{E100\#100\#1\#6}\\&\approx f_4^5\left(f_3\left(100\right)\right)\end{aligned}$$

Grangoldexiquintithrex

$$\begin{aligned} &\text{E100\#100\#2\#6} \\ &\approx f_4^5\left(f_3^2(100)\right) \end{aligned}$$

Grangoldudexiquintithrex

$$\mathrm{E100\#100\#3\#6} \approx f_4^5\left(f_3^3\left(100\right)\right)$$

Hepta-petaxis

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}7$$
$$\approx f_5(7)$$

Gaggolquinplex

$$\mathrm{E1\#1\#100\#6} \approx f_4^6(100)$$

Greagolquintithrex

$$\mathrm{E100\#100\#100\#6} \approx f_4^6(100)$$

Petatetrofaxul

$$(((((200!2)!2)!2)!2)!2)!2)!2$$
$$\approx \mathrm{E10\#10\#197\#6}$$
$$\approx f_4^6(200)$$

Octa-petaxis

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}8$$
$$\approx f_5(8)$$

Gaggolsexplex

$$\mathrm{E1\#1\#100\#7} \approx f_4^7(100)$$

Greagolsextithrex

$$\mathrm{E100\#100\#100\#7} \approx f_4^7(100)$$

Exatetrofaxul

$$(((((200!2)!2)!2)!2)!2)!2)!2$$
$$\approx \mathrm{E10\#10\#197\#7}$$
$$\approx f_4^7(200)$$

Enna-petaxis

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}9$$
$$\approx f_5(9)$$

Gaggolseptenplex

$$\mathrm{E1\#1\#100\#8} \approx f_4^8(100)$$

Greagolseptithrex

$$\mathrm{E100\#100\#100\#8} \approx f_4^8(100)$$

Deka-petaxis

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10$$
$$< f_5(10)$$

Gaggoloctoplex

$$\mathrm{E1\#1\#100\#9} \approx f_4^9(100)$$

Greagoloctithrex

$$\mathrm{E100\#100\#100\#9} \approx f_4^9(100)$$

Quintalum

$f_5(10)$

A-oomega

10[6]
10 in a hexagon
$\approx \{10,10,4\} = 10{\uparrow\uparrow\uparrow\uparrow}10$
$\approx f_5(10)$

GaggolInovemplex

$$\mathrm{E1\#1\#100\#10} \approx f_4^{10}(100)$$

Greagolnonithrex

$$\mathrm{E100\#100\#100\#10} \approx f_4^{10}(100)$$

Gaggoldecaplex

$$\mathrm{E1\#1\#100\#11} \approx f_4^{11}(100)$$

Greagoldecithrex

$$\text{E100\#100\#100\#11} \approx f_4^{11}(100)$$

Tetoovol

$$\{10,20,4\} = 10{\uparrow\uparrow\uparrow\uparrow}20$$
$$\approx f_5(20)$$

Qeefol

$$\{10,25,4\} = 10{\uparrow\uparrow\uparrow\uparrow}25$$
$$\approx f_5(25)$$

Tetootrol

$$\{10,30,4\} = 10{\uparrow\uparrow\uparrow\uparrow}30$$
$$\approx f_5(30)$$

Heefol

$$\{10,50,4\} = 10{\uparrow}{\uparrow}{\uparrow}{\uparrow}50$$
$$\approx f_5(50)$$

Geegol

$$\{10,100,4\} = 10{\uparrow\uparrow\uparrow\uparrow}100$$
$$\approx f_5(100)$$

Geegolduex

$$10{\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow}100 \approx f_3\left(f_5\left(100\right)\right)$$

Geegolduduex

$$10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow}100 \approx f_3^2\left(f_5\left(100\right)\right)$$

Geegoltreduex

$$10\uparrow\uparrow 10\uparrow\uparrow 10\uparrow\uparrow 10\uparrow\uparrow\uparrow\uparrow 100 \approx f_3^3\left(f_5\left(100\right)\right)$$

Geegolquadruduex

$$10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow}100 \approx f_3^4\left(f_5\left(100\right)\right)$$

Geegolquinduex

$$10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow}100 \approx f_3^5\left(f_5\left(100\right)\right)$$

Geegolsexduex

$$10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow}100 \approx f_3^6\left(f_5\left(100\right)\right)$$

Geegolseptenduex

$$10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow}100 \approx f_3^7\left(f_5\left(100\right)\right)$$

Geegolthrex

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}101$$
$$\approx f_5(101)$$

Gigangol

$$\mathrm{E100\#100\#100\#100} \approx f_5(101)$$

Gigangoldex

$$E100\#(E100\#100\#100\#100) \approx f_3\left(f_5\left(101\right)\right)$$

Geegolduthrex

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}102$$
$$\approx f_5(102)$$

Gigangolthrex

$$\mathrm{E100\#100\#100\#101} \approx f_5(102)$$

Geegoltrethrex

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}103$$
$$\approx f_5(103)$$

Geegolquadruthrex

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}104$$
$$\approx f_5(104)$$

Geegolquinthrex

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}105$$
$$\approx f_5(105)$$

Geegolsexthrex

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}106$$
$$\approx f_5(106)$$

Geegolseptenthrex

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}107$$
$$\approx f_5(107)$$

Geegoloctothrex

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}108$$
$$\approx f_5(108)$$

Geegolnovemthrex

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}109$$
$$\approx f_5(109)$$

Geegoldecathrex

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}110$$
$$\approx f_5(110)$$

Pentofaxul

$$200!3$$
$$\approx 10{\uparrow}{\uparrow}{\uparrow}{\uparrow}198$$
$$\approx f_5(200)$$

Tetooducol

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}200 \approx f_5(200)$$

Chilia-petaxis (geegolchime)

$$\begin{aligned} &\mathrm{E1\#1\#1\#1\,000} \\ &= 10{\uparrow\uparrow\uparrow\uparrow}1\,000 \\ &\approx f_5(1\,000) \end{aligned}$$

Myria-petaxis (geegoltoll)

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10\,000$$
$$\approx f_5(10\,000)$$

Geegolgong

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}100\ 000$$
$$\approx f_5(100\ 000)$$

Geegolbong

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}100\,000\,000$$
$$\approx f_5(100\,000\,000)$$

Goodcoltetex

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10\,000\,000\,000 \approx f_5(10\,000\,000\,000)$$

Geegolthrong

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}100\ 000\ 000\ 000$$
$$\approx f_5(100\ 000\ 000\ 000)$$

Googolquadrex

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}100$$
$$\approx f_5(10^{100})$$

Googoltetrex

$$\mathrm{E100\#1\#1\#1\#2} \approx f_5\left(f_2\left(324\right)\right)$$

Googolplexitetrex

$$\mathrm{E100\#2\#1\#1\#2} \approx f_5\left(f_2^2(324)\right)$$

Giggolquadrex

$$10{\uparrow\uparrow\uparrow\uparrow}10{\uparrow\uparrow}100 \approx f_5\left(f_3\left(100\right)\right)$$

Grangoltetrex

$$\mathrm{E100\#100\#1\#1\#2} \approx f_5\left(f_3\left(100\right)\right)$$

Grangoldexitetrex

$$\mathrm{E100\#100\#2\#1\#2} \approx f_5\left(f_3^2(100)\right)$$

Gaggolquadrex

$$10{\uparrow\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow}100 \approx f_5\left(f_4\left(100\right)\right)$$

Greagoltetrex

$$\mathrm{E100\#100\#100\#1\#2} \approx f_5\left(f_4\left(100\right)\right)$$

Tripeno

$$3{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}3 = \{3,3,5\}$$
$$\approx f_6(2)$$

Greagolthrexitetrex

$$E100\#100\#100\#2\#2 \approx f_5\left(f_4^2(100)\right)$$

Greagolduthrexitetrex

$$\mathrm{E100\#100\#100\#3\#2} \approx f_5\left(f_4^3(100)\right)$$

Tria-exaxis

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}3 = \{10,3,5\}$$
$$= 10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10$$
$$\approx f_5^2(10)$$

Geegolplex

$$10\uparrow\uparrow\uparrow\uparrow 10\uparrow\uparrow\uparrow\uparrow 100 \approx f_5^2(100)$$

Gigangoltetrex

$$\mathrm{E100\#100\#100\#100\#2} \approx f_5^2(100)$$

Kilopentofaxul

$$(200!3)!3$$
$$\approx 10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}198$$
$$\approx f_5^2(200)$$

Googolduquadrex

$$10{\uparrow\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow}10{\uparrow}100 \approx f_5^2\left(f_2\left(324\right)\right)$$

Giggolduquadrex

$$10{\uparrow\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow}10{\uparrow\uparrow}100 \approx f_5^2\left(f_3\left(100\right)\right)$$

Gaggolduquadrex

$$10{\uparrow\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow}100 \approx f_5^2\left(f_4\left(100\right)\right)$$

Greagoldutetrex

$$\mathrm{E100\#100\#100\#1\#3} \approx f_5^2\left(f_4\left(100\right)\right)$$

Greagolthrexidutetrex

$$\mathrm{E}100\#100\#100\#2\#3 \approx f_5^2\left(f_4^2\left(100\right)\right)$$

Tetpeno

$$4{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}4 = \{4,4,5\}$$
$$\approx f_6(3)$$

Greagolduthrexidutetrex

$$\mathrm{E100\#100\#100\#3\#3} \approx f_5^2\left(f_4^3\left(100\right)\right)$$

Tetra-exaxis

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}4 = \{10,4,5\}$$
$$= 10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10$$
$$\approx f_5^3(10)$$

Geegolduplex

$$10{\uparrow\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow}100 \approx f_5^3(100)$$

Gigangoldutetrex

$$\mathrm{E100\#100\#100\#100\#3} \approx f_5^3(100)$$

Megapentofaxul

$$((200!3)!3)!3$$
$$\approx 10{\uparrow\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow}198$$
$$\approx f_5^3(200)$$

Googoltrequadrex

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}100 \approx f_5^3\left(f_2\left(324\right)\right)$$

Giggoltrequadrex

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}100 \approx f_5^3\left(f_3\left(100\right)\right)$$

Gaggoltrequadrex

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}100 \approx f_5^3\left(f_4\left(100\right)\right)$$

Greagoltritetrex

$$\mathrm{E100\#100\#100\#1\#4} \approx f_5^3\left(f_4\left(100\right)\right)$$

Greagolthrexitritetrex

$$\mathrm{E}100\#100\#100\#2\#4 \approx f_5^3\left(f_4^2(100)\right)$$

Greagolduthrexitritetrex

$$\mathrm{E100\#100\#100\#3\#4} \approx f_5^3\left(f_4^3(100)\right)$$

Tripent

$$5{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}5 = \{5,5,5\}$$
$$\approx f_6(4)$$

Penta-exaxis

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}5 = \{10,5,5\}$$
$$= 10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10$$
$$\approx f_5^4(10)$$

Geegoltreplex

$$10{\uparrow\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow}100 \approx f_5^4(100)$$

Gigangoltritetrex

$$\mathrm{E100\#100\#100\#100\#4} \approx f_5^4(100)$$

Gigapentofaxul

$$(((200!3)!3)!3)!3$$
$$\approx 10{\uparrow\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow}198$$
$$\approx f_5^4(200)$$

Greagolquadritetrex

$$\mathrm{E100\#100\#100\#1\#5} \approx f_5^4\left(f_4\left(100\right)\right)$$

Greagolthrexiquadritetrex

$$\begin{aligned}&\mathrm{E100\#100\#100\#2\#5}\\&\approx f_5^4\left(f_4^2\left(100\right)\right)\end{aligned}$$

Greagolduthrexiquadritetrex

$$\begin{aligned}&\mathrm{E100\#100\#100\#3\#5}\\&\approx f_5^4\left(f_4^3\left(100\right)\right)\end{aligned}$$

Hexpeno

$$6{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}6 = \{6,6,5\}$$
$$\approx f_6(5)$$

Hexa-exaxis

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}6 = \{10,6,5\}$$
$$= 10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10$$
$$\approx f_5^5(10)$$

Geegolquadruplex

$$10{\uparrow\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow}100 \approx f_5^5(100)$$

Gigangolquadritetrex

$$\mathrm{E100\#100\#100\#100\#5} \approx f_5^5(100)$$

Greagolquintitetrex

$$\mathrm{E100\#100\#100\#1\#6} \approx f_5^5\left(f_4\left(100\right)\right)$$

Greagolthrexiquintitetrex

$$\mathrm{E100\#100\#100\#2\#6} \approx f_5^5\left(f_4^2(100)\right)$$

Greagolduthrexiquintitetrex

$$\begin{aligned}&\mathrm{E100\#100\#100\#3\#6}\\&\approx f_5^5\left(f_4^3\left(100\right)\right)\end{aligned}$$

Boogaseven

$$7{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}7 = \{7,7,5\}$$
$$\approx f_6(6) = f_\omega(6)$$

Hepta-exaxis

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}7 = \{10,7,5\}$$
$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}10 \approx f_5^6(10)$$

Geegolquinplex

$$10{\uparrow\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow}100 \approx f_5^6(100)$$

Gigangolquintitetrex

$$\mathrm{E100\#100\#100\#100\#6} \approx f_5^6(100)$$

Geegolsexplex

$$10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}100 \approx f_5^7(100)$$

Geegolseptenplex

$$10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}100 \approx f_5^8(100)$$

Deka-exaxis

$$10{\uparrow\uparrow\uparrow\uparrow\uparrow}10 = \{10,10,5\}$$
$$= 10{\uparrow^4}10{\uparrow^4}10{\uparrow^4}10{\uparrow^4}10{\uparrow^4}10{\uparrow^4}10{\uparrow^4}10{\uparrow^4}10{\uparrow^4}10$$
$$\approx f_5^9(10)$$

Geegoloctoplex

$$10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}100 \approx f_5^9(100)$$

Sextalum

$f_6(10)$

Geegolnovemplex

$$10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}100 \approx f_5^{10}(100)$$

Geegoldecaplex

$$10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}10{\uparrow}^{4}100$$
$$= E1\#1\#1\#100\#11$$
$$\approx f_5^{10}(100)$$

Hifol

$$10\uparrow\uparrow\uparrow\uparrow\uparrow 50 = \{10,50,5\}$$
$$\approx f_6(50)$$

Gigol (hecta-exaxis)

$$\begin{aligned} &\{10,100,5\} \\ &= 10{\uparrow\uparrow\uparrow\uparrow\uparrow}100 \\ &\approx f_6(100) \end{aligned}$$

Gigolduex

$$10{\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow\uparrow}100 \approx f_3\left(f_6\left(100\right)\right)$$

Gigolthrex

$$10{\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow\uparrow}100 \approx f_4\left(f_6\left(100\right)\right)$$

Gigolquadrex

$$
\begin{aligned}
&10{\uparrow\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow\uparrow}100 \\
&= 10{\uparrow\uparrow\uparrow\uparrow\uparrow}101 \\
&\approx f_5\left(f_6\left(100\right)\right)
\end{aligned}
$$

Gorgegol

$$\mathrm{E100\#100\#100\#100\#100} \approx f_6(101)$$

Gorgegoldex

$$E100\#(E100\#100\#100\#100\#100) \approx f_3\left(f_6(101)\right)$$

Gorgegolthrex

$$\mathrm{E100\#100\#(E100\#100\#100\#100\#100)} \approx f_4\left(f_6\left(101\right)\right)$$

Gorgegoltetrex

$$\mathrm{E100\#100\#100\#100\#101} \approx f_6(102)$$

Hexofaxul

$$200!4 \approx 10{\uparrow\uparrow\uparrow\uparrow\uparrow}198 \approx f_6(200)$$

Chilia-exaxis

$$\begin{aligned} &\mathrm{E1\#1\#1\#1\#1\ 000} \\ &= 10{\uparrow\uparrow\uparrow\uparrow\uparrow}1\ 000 \\ &\approx f_6(1000) \end{aligned}$$

Myria-exaxis

$$\begin{aligned} &\mathrm{E1\#1\#1\#1\#10\ 000} \\ &= 10{\uparrow\uparrow\uparrow\uparrow\uparrow}10\ 000 \\ &\approx f_6(10\ 000) \end{aligned}$$

Gigolgong

$$\begin{aligned} &\mathrm{E1\#1\#1\#1\#100\ 000} \\ &= 10{\uparrow\uparrow\uparrow\uparrow\uparrow}100\ 000 \\ &\approx f_6(100\ 000) \end{aligned}$$

$$\begin{aligned}
&\mathrm{E1\#1\#1\#1\#1\,000\,000} \\
&= 10{\uparrow\uparrow\uparrow\uparrow\uparrow}1\,000\,000 \\
&\approx f_6(1\,000\,000)
\end{aligned}$$

$$\begin{aligned}
&\mathrm{E1\#1\#1\#1\#10\ 000\ 000} \\
&= 10{\uparrow\uparrow\uparrow\uparrow\uparrow}10\ 000\ 000 \\
&\approx f_6\,(10\ 000\ 000)
\end{aligned}$$

Gigolbong

$$\begin{aligned}&\mathrm{E1\#1\#1\#1\#100\ 000\ 000}\\&= 10{\uparrow\uparrow\uparrow\uparrow\uparrow}100\ 000\ 000\\&\approx f_6(100\ 000\ 000)\end{aligned}$$

$$\begin{aligned}
&\mathrm{E1\#1\#1\#1\#1\,000\,000\,000} \\
&= 10{\uparrow\uparrow\uparrow\uparrow\uparrow}1\,000\,000\,000 \\
&\approx f_6(1\,000\,000\,000) = f_6\left(10^9\right)
\end{aligned}$$

$$\begin{aligned}
&\mathrm{E1\#1\#1\#1\#10\ 000\ 000\ 000} \\
&= 10{\uparrow\uparrow\uparrow\uparrow\uparrow}10\ 000\ 000\ 000 \\
&\approx f_6\left(10^{10}\right)
\end{aligned}$$

Gigolthrong

$$\begin{aligned}&\mathrm{E1\#1\#1\#1\#100\ 000\ 000\ 000}\\&= 10{\uparrow\uparrow\uparrow\uparrow\uparrow}100\ 000\ 000\ 000\\&\approx f_6\left(10^{11}\right)\end{aligned}$$

Googolquinex

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}(10{\uparrow}100) \approx f_6\left(f_2\left(324\right)\right)$$

GoogolIpentex

$$\mathrm{E100\#1\#1\#1\#1\#2} \approx f_6\left(f_2\left(324\right)\right)$$

Giggolquinex

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}100 \approx f_6\left(f_3\left(100\right)\right)$$

Grangolpentex

$$\mathrm{E100\#100\#1\#1\#1\#2} \approx f_6\left(f_3\left(100\right)\right)$$

Gaggolquinex

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}100 \approx f_6\left(f_4\left(100\right)\right)$$

Greagolpentex

$$\mathrm{E100\#100\#100\#1\#1\#2} \approx f_6\left(f_4\left(100\right)\right)$$

Geegolquinex

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}100 \approx f_6\left(f_5\left(100\right)\right)$$

Gigangolpentex

$$\mathrm{E100\#100\#100\#100\#1\#2} \approx f_6\left(f_5\left(100\right)\right)$$

Trihexo

$$3{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}3$$
$$\approx f_7(3)$$

Gigangoltetrexipentex

$$\mathrm{E100\#100\#100\#100\#2\#2} \approx f_6\left(f_5^2(100)\right)$$

Gigangoldutetrexipentex

$$\mathrm{E100\#100\#100\#100\#3\#2} \approx f_6\left(f_5^3(100)\right)$$

Tria-eptaxis

$$10{\uparrow\uparrow\uparrow\uparrow\uparrow}10{\uparrow\uparrow\uparrow\uparrow\uparrow}10 \approx f_6^2(10)$$

Gigolplex

$$10\uparrow\uparrow\uparrow\uparrow\uparrow 10\uparrow\uparrow\uparrow\uparrow\uparrow 100 \approx f_6^2(100)$$

Gorgegolpentex

$$\mathrm{E100\#100\#100\#100\#100\#2} \approx f_6^2(100)$$

Kilohexofaxul

$$(200!4)!4$$
$$\approx 10{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}198$$
$$\approx f_6^2(200)$$

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}1000$$
$$\approx f_6^2(1000)$$

$$10\uparrow\uparrow\uparrow\uparrow\uparrow 10\uparrow\uparrow\uparrow\uparrow\uparrow 100\ 000$$
$$\approx f_6^2\,(100\ 000)$$

$$10\uparrow\uparrow\uparrow\uparrow\uparrow 10\uparrow\uparrow\uparrow\uparrow\uparrow 1\,000\,000 \approx f_6^2\left(10^6\right)$$

$$10\uparrow\uparrow\uparrow\uparrow\uparrow 10\uparrow\uparrow\uparrow\uparrow\uparrow(10\uparrow 100) \approx f_6^2\left(f_2(324)\right)$$

$$10\uparrow\uparrow\uparrow\uparrow\uparrow 10\uparrow\uparrow\uparrow\uparrow\uparrow (10\uparrow\uparrow 100)$$
$$\approx f_6^2\left(f_3\left(100\right)\right)$$

$$10\uparrow\uparrow\uparrow\uparrow\uparrow 10\uparrow\uparrow\uparrow\uparrow\uparrow(10\uparrow\uparrow\uparrow 100) \approx f_6^2\left(f_4\left(100\right)\right)$$

Gigangoldupentex

$$\mathrm{E100\#100\#100\#100\#1\#3} \approx f_6^2\left(f_5\left(100\right)\right)$$

$$10\uparrow\uparrow\uparrow\uparrow\uparrow 10\uparrow\uparrow\uparrow\uparrow\uparrow(10\uparrow\uparrow\uparrow\uparrow 1000) \approx f_6^2\left(f_5\left(1000\right)\right)$$

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}(10{\uparrow}{\uparrow}{\uparrow}{\uparrow}1\ 000\ 000) \approx f_6^2\left(f_5\left(10^6\right)\right)$$

$$10\uparrow\uparrow\uparrow\uparrow\uparrow 10\uparrow\uparrow\uparrow\uparrow\uparrow(10\uparrow\uparrow\uparrow\uparrow(10\uparrow 100)) \approx f_6^2\left(f_5\left(f_2\left(324\right)\right)\right)$$

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}(10{\uparrow}{\uparrow}{\uparrow}{\uparrow}(10{\uparrow}{\uparrow}100)) \approx f_6^2\left(f_5\left(f_3\left(100\right)\right)\right)$$

$$10\uparrow\uparrow\uparrow\uparrow\uparrow 10\uparrow\uparrow\uparrow\uparrow\uparrow(10\uparrow\uparrow\uparrow\uparrow(10\uparrow\uparrow\uparrow 100)) \approx f_6^2\left(f_5\left(f_4(100)\right)\right)$$

Gigangoltetrexidupentex

$$\mathrm{E100\#100\#100\#100\#2\#3} \approx f_6^2\left(f_5^2\left(100\right)\right)$$

Tethexo

$$4{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}4 = 4{\uparrow}^{6}4$$
$$\approx f_7(4)$$

Gigangoldutetrexidupentex

$$\mathrm{E100\#100\#100\#100\#3\#3} \approx f_6^2\left(f_5^3\left(100\right)\right)$$

Tetra-eptaxis

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}4 = 10{\uparrow}^{6}4$$
$$\approx f_6^3(10)$$

Gigolduplex

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}100 \approx f_6^3(100)$$

Gorgegoldupentex

$$\mathrm{E100\#100\#100\#100\#100\#3} \approx f_6^3(100)$$

Megahexofaxul

$$((200!4)!4)!4$$
$$\approx f_6^3(200)$$

Gigangoltripentex

$$\mathrm{E100\#100\#100\#100\#1\#4} \approx f_6^3\left(f_5\left(100\right)\right)$$

Gigangoltetrexitripentex

$$\mathrm{E100\#100\#100\#100\#2\#4} \approx f_6^3\left(f_5^2\left(100\right)\right)$$

Gigangoldutetrexitripentex

$$\mathrm{E100\#100\#100\#100\#3\#4} \approx f_6^3\left(f_5^3\left(100\right)\right)$$

Penhexo

$$5{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}5 = 5{\uparrow}^{6}5$$
$$\approx f_7(5)$$

Penta-eptaxis

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}5 = 10{\uparrow}^{6}5$$
$$\approx f_6^4(10)$$

Gigoltreplex

$$\mathrm{E1\#1\#1\#1\#100\#4} \approx f_6^4(100)$$

Gorgegoltripentex

$$\mathrm{E100\#100\#100\#100\#100\#4} \approx f_6^4(100)$$

Gigahexofaxul

$$(((200!4)!4)!4)!4$$
$$\approx f_6^4(200)$$

Trihex

$$6{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}6 = 6{\uparrow}^{6}6$$
$$\approx f_7(6)$$

Hexa-eptaxis

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}6 = 10{\uparrow}^{6}6$$
$$\approx f_6^5(10)$$

Gigolquadruplex

$$\mathrm{E1\#1\#1\#1\#100\#5} \approx f_6^5(100)$$

Gorgegolquadripentex

$$\mathrm{E100\#100\#100\#100\#100\#5} \approx f_6^5(100)$$

$$7{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}7 = 7{\uparrow}^{6}7$$
$$\approx f_7(7) = f_\omega(7)$$

$$10{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}7 = 10{\uparrow}^{6}7$$
$$\approx f_6^6(10)$$

Gigolquinplex

$$\mathrm{E1\#1\#1\#1\#100\#6}$$
$$\approx f_6^6(100)$$

Gorgegolquintipentex

$$\mathrm{E100\#100\#100\#100\#100\#6} \approx f_6^6(100)$$

Boogaeight

$$8{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}8 = 8{\uparrow}^{6}8$$
$$\approx f_7(8)$$

$$10\uparrow\uparrow\uparrow\uparrow\uparrow\uparrow 8 = 10\uparrow^6 8$$
$$\approx f_6^7(10)$$

Gigolsexplex

$$\mathrm{E1\#1\#1\#1\#100\#7} \approx f_6^7(100)$$

Gigolseptenplex

$$\mathrm{E1\#1\#1\#1\#100\#8} \approx f_6^8(100)$$

$$10{\uparrow\uparrow\uparrow\uparrow\uparrow\uparrow}9 = 10{\uparrow}^{6}9$$
$$\approx f_6^8(10)$$

Deka-eptaxis

$$10\uparrow^{6}10 = \{10,10,6\}$$
$$\approx f_6^9(10)$$

Gigoloctoplex

$$\mathrm{E1\#1\#1\#1\#100\#9} \approx f_6^9(100)$$

Septalum

$$f_7(10) = f_6^{10}(10)$$

GigolInovemplex

$$\mathrm{E1\#1\#1\#1\#100\#10}$$
$$\approx f_6^{10}(100)$$

Gigoldecaplex

$$\mathrm{E1\#1\#1\#1\#100\#11}$$
$$\approx f_6^{11}(100)$$

$$10{\uparrow}^{6}20 = \{10,20,6\}$$
$$\approx f_7(20)$$

$$10\uparrow^{6}30 = \{10,30,6\}$$
$$\approx f_7(30)$$

$$10\uparrow^{6}40 = \{10,40,6\}$$
$$\approx f_7(40)$$

Hogfol

$$10{\uparrow}^{6}50 = \{10,50,6\}$$
$$\approx f_7(50)$$

$$10\uparrow^{6}60 = \{10,60,6\}$$
$$\approx f_7(60)$$

$$10\uparrow^{6}70 = \{10,70,6\}$$
$$\approx f_7(70)$$

Goggol

$$10\uparrow^{6}100 = \{10,100,6\}$$
$$\approx f_7(100)$$

Goggolduex

$$
\begin{aligned}
&10{\uparrow\uparrow}10{\uparrow}^{6}100 \\
&= 10{\uparrow}^{2}10{\uparrow}^{6}100 \\
&\approx f_3\left(f_7\left(100\right)\right)
\end{aligned}
$$

Goggolthrex

$$10{\uparrow}^{3}10{\uparrow}^{6}100 \approx f_4\left(f_7\left(100\right)\right)$$

Goggolquadrex

$$10{\uparrow}^{4}10{\uparrow}^{6}100 \approx f_5\left(f_7\left(100\right)\right)$$

Goggolquinex

$$10{\uparrow}^{5}10{\uparrow}^{6}100$$
$$= 10{\uparrow}^{6}101 = \{10,101,6\}$$
$$\approx f_6\left(f_7\left(100\right)\right)$$

Gulgol

$$\begin{aligned}&\mathrm{E100\#100\#100\#100\#100\#100}\\ &= \mathrm{E100\#\#6}\\ &\approx f_7(101)\end{aligned}$$

Gulgoldex

$$\text{E100\#(E100\#100\#100\#100\#100\#100)} \approx f_3\left(f_7\left(101\right)\right)$$

Gulgolthrex

$$\mathrm{E100\#100\#(E100\#100\#100\#100\#100\#100)} \approx f_4\left(f_7\left(101\right)\right)$$

Gulgoltetrex

$$\mathrm{E100\#100\#100\#(E100\#100\#100\#100\#100\#100)} \approx f_5\left(f_7\left(101\right)\right)$$

Gulgolpentex

$$\mathrm{E100\#100\#100\#100\#100\#101} \approx f_6\left(f_7\left(101\right)\right)$$

Heptofaxul

$$200!5 \approx f_7(200)$$

Chilia-eptaxis

$$\mathrm{E1\#1\#1\#1\#1\#1000}$$
$$\approx f_7\,(1000)$$

Myria-eptaxis

$$\mathrm{E1\#1\#1\#1\#1\#10\ 000} \approx f_7\left(10\ 000\right)$$

Goggolgong

$$\mathrm{E1\#1\#1\#1\#1\#100\ 000} \approx f_7(100\ 000)$$

$$\mathrm{E1\#1\#1\#1\#1}\ 000\ 000$$
$$\approx f_7\left(10^6\right)$$

$$\mathrm{E1\#1\#1\#1\#1\#10\ 000\ 000} \approx f_7\left(10^7\right)$$

Goggolbong

$$\mathrm{E1\#1\#1\#1\#1\#100\ 000\ 000} \approx f_7\left(10^8\right)$$

$$\mathrm{E1\#1\#1\#1\#1\#1\ 000\ 000\ 000} \approx f_7\left(10^9\right)$$

$$\mathrm{E1\#1\#1\#1\#10\ 000\ 000\ 000} \approx f_7\left(10^{10}\right)$$

Goggolthrong

$$\mathrm{E1\#1\#1\#1\#1\#100\ 000\ 000\ 000} \approx f_7\left(10^{11}\right)$$

Googolhex (Tiaokhiao)

$$10{\uparrow}^{6}10^{100} \approx f_7\left(f_2\left(324\right)\right)$$

Googolhex (Saibian)

$$\mathrm{E100\#1\#1\#1\#1\#1\#2} \approx f_7\left(f_2\left(324\right)\right)$$

Giggolhex

$$10{\uparrow}^{6}10{\uparrow}^{2}100 \approx f_7\left(f_3\left(100\right)\right)$$

Grangolhex

$$\mathrm{E100\#100\#1\#1\#1\#1\#2} \approx f_7\left(f_3\left(100\right)\right)$$

Gaggolhex

$$10{\uparrow}^{6}10{\uparrow}^{3}100 \approx f_7\left(f_4\left(100\right)\right)$$

Greagolhex

$$\mathrm{E100\#100\#100\#1\#1\#1\#2} \approx f_7\left(f_4\left(100\right)\right)$$

Geegolhex

$$10{\uparrow}^{6}10{\uparrow}^{4}100 \approx f_7\left(f_5\left(100\right)\right)$$

Gigangolhex

$$\mathrm{E100\#100\#100\#100\#1\#1\#2} \approx f_7\left(f_5\left(100\right)\right)$$

Gigolhex

$$10{\uparrow}^{6}10{\uparrow}^{5}100 \approx f_7\left(f_6\left(100\right)\right)$$

Gorgegolhex

$$\mathrm{E100\#100\#100\#100\#100\#1\#2} \approx f_7\left(f_6\left(100\right)\right)$$

Hughal

$$3\uparrow^{7}3 = \{3,3,7\}$$
$$\approx f_8(3)$$

Gorgegolpentexihex

$$\mathrm{E100\#100\#100\#100\#100\#2\#2} \approx f_7\left(f_6^2\left(100\right)\right)$$

Tria-octaxis

$$10{\uparrow}^{6}10{\uparrow}^{6}10 = 10{\uparrow}^{7}3$$
$$= \{10,3,7\}$$
$$\approx f_7^2(10)$$

Goggolplex

$$10{\uparrow}^{6}10{\uparrow}^{6}100 \approx f_7^2(100)$$

Gulgolhex

$$\mathrm{E100\#100\#100\#100\#100\#100\#2} \approx f_7^2(100)$$

Gorgegolduhex

$$\mathrm{E100\#100\#100\#100\#100\#1\#3} \approx f_7^2\left(f_6\left(100\right)\right)$$

Gorgegolpentexiduhex

$$\mathrm{E100\#100\#100\#100\#100\#2\#3} \approx f_7^2\left(f_6^2\left(100\right)\right)$$

Tetra-octaxis

$$10\uparrow^{7}4 = \{10,4,7\}$$
$$\approx f_7^3(10)$$

Goggolduplex

$$10{\uparrow}^{6}10{\uparrow}^{6}10{\uparrow}^{6}100 \approx f_7^3(100)$$

Gulgolduhex

$$\mathrm{E100\#100\#100\#100\#100\#100\#3} \approx f_7^3(100)$$

Gorgegoltrihex

$$\mathrm{E100\#100\#100\#100\#100\#1\#4} \approx f_7^3\left(f_6(100)\right)$$

Gorgegolpentexitrihex

$$\mathrm{E100\#100\#100\#100\#100\#2\#4} \approx f_7^3\left(f_6^2\left(100\right)\right)$$

Goggoltreplex

$$10{\uparrow}^{6}10{\uparrow}^{6}10{\uparrow}^{6}10{\uparrow}^{6}100 \approx f_7^4(100)$$

Gulgoltrihex

$$\mathrm{E100\#100\#100\#100\#100\#100\#4} \approx f_7^4(100)$$

Trisept

$$7\uparrow^{7}7 = \{7,7,7\}$$
$$\approx f_8(7)$$

$$8\uparrow^{7}8 = \{8,8,7\}$$
$$\approx f_8(8) = f_\omega(8)$$

Booganine

$$9{\uparrow}^{7}9 = \{9,9,7\}$$
$$\approx f_8(9)$$

Deka-octaxis

$$10{\uparrow}^{7}10 = \{10,10,7\}$$
$$\approx f_8(10)$$

Octalum

$f_8(10)$

$$10\uparrow^{7}20 = \{10,20,7\}$$
$$\approx f_8(20)$$

$$10\uparrow^{7}30 = \{10,30,7\}$$
$$\approx f_8(30)$$

$$10\uparrow^{7}40 = \{10,40,7\}$$
$$\approx f_8(40)$$

$$10\uparrow^{7}50 = \{10,50,7\}$$
$$\approx f_8(50)$$

$$10\uparrow^{7}60 = \{10,60,7\}$$
$$\approx f_8(60)$$

$$10\uparrow^{7}70 = \{10,70,7\}$$
$$\approx f_8(70)$$

$$10\uparrow^{7}80 = \{10,80,7\}$$
$$\approx f_8(80)$$

$$10\uparrow^{7}90 = \{10,90,7\}$$
$$\approx f_8(90)$$

Gagol

$$10\uparrow^{7}100 = \{10,100,7\}$$
$$\approx f_8(100)$$

Gagolhex

$$10\uparrow^{7}101 = \{10,101,7\}$$
$$\approx f_8(101)$$

Gaspgol

$$\begin{aligned}&\mathrm{E100\#100\#100\#100\#100\#100\#100}\\&= \mathrm{E100\#\#7}\\&\approx f_8(101)\end{aligned}$$

Gaspgolhex

$$\mathrm{E100\#100\#100\#100\#100\#100\#101} \approx f_8\left(101\right)$$

Octofaxul

$$200!6 \approx f_8(200)$$

Chilia-octaxis

$$\mathrm{E1\#1\#1\#1\#1\#1\#1000} \approx f_8\left(1000\right)$$

Myria-octaxis

$$\mathrm{E1\#1\#1\#1\#1\#1\#10\ 000}$$
$$\approx f_8\left(10\ 000\right)$$

Gagolgong

$$\mathrm{E1\#1\#1\#1\#1\#1\#100\ 000} \approx f_8\,(100\ 000)$$

$$\mathrm{E1\#1\#1\#1\#1\#1\,000\,000} \approx f_8\,(1\,000\,000)$$

$$\mathrm{E1\#1\#1\#1\#1\#10\,000\,000} \approx f_8\,(10\,000\,000)$$

Gagolbong

$$\mathrm{E1\#1\#1\#1\#1\#1\#100\ 000\ 000} \approx f_8\,(100\ 000\ 000)$$

$$\mathrm{E1\#1\#1\#1\#1\#1\ 000\ 000\ 000} \approx f_8\left(10^9\right)$$

$$\mathrm{E1\#1\#1\#1\#1\#10\ 000\ 000\ 000} \approx f_8\left(10^{10}\right)$$

Gagolthrong

$$\mathrm{E1\#1\#1\#1\#1\#100\ 000\ 000\ 000} \approx f_8\left(10^{11}\right)$$

Googolhepex

$$10{\uparrow}^{7}(10{\uparrow}100) \approx f_8\left(f_2\left(324\right)\right)$$

Googolheptex

$$\mathrm{E100\#1\#1\#1\#1\#1\#1\#2} \approx f_8\left(f_2\left(324\right)\right)$$

Giggolhepex

$$10{\uparrow}^{7}10{\uparrow\uparrow}100 \approx f_8\left(f_3\left(100\right)\right)$$

Grangolheptex

$$\mathrm{E100\#100\#1\#1\#1\#1\#1\#2} \approx f_8\left(f_3\left(100\right)\right)$$

Gaggolhepex

$$10{\uparrow}^{7}10{\uparrow\uparrow\uparrow}100 \approx f_8\left(f_4\left(100\right)\right)$$

Greagolheptex

$$\mathrm{E100\#100\#100\#1\#1\#1\#1\#2} \approx f_8\left(f_4\left(100\right)\right)$$

Geegolhepex

$$10{\uparrow}^{7}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}100$$
$$\approx f_8\left(f_5\left(100\right)\right)$$

Gigangolheptex

$$\mathrm{E100\#100\#100\#100\#1\#1\#1\#2} \approx f_8\left(f_5\left(100\right)\right)$$

Gigolhepex

$$10{\uparrow}^{7}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}100 \approx f_8\left(f_6\left(100\right)\right)$$

Gorgegolheptex

$$\mathrm{E100\#100\#100\#100\#100\#1\#1\#2} \approx f_8\left(f_6\left(100\right)\right)$$

Goggolhepex

$$10{\uparrow}^{7}10{\uparrow}^{6}100 \approx f_8\left(f_7\left(100\right)\right)$$

Gulgolheptex

$$\mathrm{E100\#100\#100\#100\#100\#100\#1\#2} \approx f_8\left(f_7\left(100\right)\right)$$

Gulgolhexiheptex

$$\mathrm{E100\#100\#100\#100\#100\#100\#2\#2} \approx f_8\left(f_7^2\left(100\right)\right)$$

Tria-ennaxis

$$10{\uparrow}^{7}10{\uparrow}^{7}10 = \{10,3,8\}$$
$$\approx f_8^2(10)$$

Gagolplex

$$10{\uparrow}^{7}10{\uparrow}^{7}100 \approx f_8^2(100)$$

Gaspgolheptex

$$\mathrm{E100\#100\#100\#100\#100\#100\#100\#2} \approx f_8^2(100)$$

Gulgolduheptex

$$\mathrm{E100\#100\#100\#100\#100\#100\#1\#3} \approx f_8^2\left(f_7\left(100\right)\right)$$

Gulgolhexiduheptex

$$\mathrm{E100\#100\#100\#100\#100\#100\#2\#3} \approx f_8^2\left(f_7^2\left(100\right)\right)$$

Tetra-ennaxis

$$10\uparrow^{8}4 = \{10,4,8\}$$
$$\approx f_8^3(10)$$

Gagolduplex

$$10{\uparrow}^{7}10{\uparrow}^{7}10{\uparrow}^{7}100 \approx f_8^3(100)$$

Gaspgolduheptex

$$\mathrm{E100\#100\#100\#100\#100\#100\#100\#3} \approx f_8^3(100)$$

$$10\uparrow^{8}5 = \{10,5,8\}$$
$$\approx f_8^4(10)$$

Gagoltreplex

$$10{\uparrow}^{7}10{\uparrow}^{7}10{\uparrow}^{7}10{\uparrow}^{7}100 \approx f_8^4(100)$$

Trioct

$$8\uparrow^{8}8 = \{8,8,8\}$$
$$\approx f_9(8)$$

$$10\uparrow^{8}8 = \{10,8,8\}$$
$$\approx f_9(8)$$

$$10\uparrow^{8}9 = \{10,9,8\}$$
$$\approx f_9(9)$$

Deka-ennaxis

$$10{\uparrow}^{8}10 = \{10,10,8\}$$
$$\approx f_9(10)$$

Nonalum

$f_9(10)$

$$10\uparrow^{8}20 = \{10,20,8\}$$
$$\approx f_9(20)$$

$$10\uparrow^{8}30 = \{10,30,8\}$$
$$\approx f_9(30)$$

$$10\uparrow^{8}40 = \{10,40,8\}$$
$$\approx f_9(40)$$

$$10\uparrow^{8}50 = \{10,50,8\}$$
$$\approx f_9(50)$$

$$10\uparrow^{8}60 = \{10,60,8\}$$
$$\approx f_9(60)$$

$$10\uparrow^{8}70 = \{10,70,8\}$$
$$\approx f_9(70)$$

$$10\uparrow^{8}80 = \{10,80,8\}$$
$$\approx f_9(80)$$

$$10\uparrow^{8}90 = \{10,90,8\}$$
$$\approx f_9(90)$$

Hecta-ennaxis

$$10{\uparrow}^{8}100 = \{10,100,8\}$$
$$\approx f_9(100)$$

Ogdagolhepex

$$10{\uparrow}^{8}101 = \{10,101,8\}$$
$$\approx f_9(101)$$

Ginorgol

$$\begin{aligned}&\mathrm{E100\#100\#100\#100\#100\#100\#100\#100}\\&= \mathrm{E100\#\#8}\\&\approx f_9(101)\end{aligned}$$

Ginorgolheptex

$$\mathrm{E100\#100\#100\#100\#100\#100\#100\#101} \approx f_9\left(101\right)$$

Chilia-ennaxis

$$\mathrm{E1\#1\#1\#1\#1\#1\#1000} \approx f_9\left(1000\right)$$

Myria-ennaxis

$$\mathrm{E1\#1\#1\#1\#1\#1\#10\ 000} \approx f_9\left(10\ 000\right)$$

Googologdex

$$10{\uparrow}^{8}(10{\uparrow}100) \approx f_9\left(f_2\left(325\right)\right)$$

Googoloctex

$$\mathrm{E100\#1\#1\#1\#1\#1\#1\#2} \approx f_9\left(f_2\left(325\right)\right)$$

Giggologdex

$$10{\uparrow}^{8}10{\uparrow\uparrow}100 \approx f_9\left(f_3\left(100\right)\right)$$

Grangoloctex

$$\mathrm{E100\#100\#1\#1\#1\#1\#1\#1\#2} \approx f_9\left(f_3\left(100\right)\right)$$

Gaggologdex

$$10{\uparrow}^{8}10{\uparrow}{\uparrow}{\uparrow}100 \approx f_9\left(f_4\left(100\right)\right)$$

Greagoloctex

$$\mathrm{E100\#100\#100\#1\#1\#1\#1\#1\#2} \approx f_9\left(f_4\left(100\right)\right)$$

Geegologdex

$$10{\uparrow}^{8}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}100 \approx f_9\left(f_5\left(100\right)\right)$$

Gigangoloctex

$$\mathrm{E100\#100\#100\#100\#1\#1\#1\#1\#2} \approx f_9\left(f_5\left(100\right)\right)$$

Gigologdex

$$10\uparrow^{8}10\uparrow\uparrow\uparrow\uparrow\uparrow100 \approx f_9\left(f_6\left(100\right)\right)$$

Gorgegoloctex

$$\mathrm{E100\#100\#100\#100\#100\#1\#1\#1\#2} \approx f_9\left(f_6\left(100\right)\right)$$

Goggologdex

$$10{\uparrow}^{8}10{\uparrow}^{6}100 \approx f_9\left(f_7\left(100\right)\right)$$

Gulgoloctex

$$\mathrm{E100\#100\#100\#100\#100\#100\#1\#1\#2} \approx f_9\left(f_7\left(100\right)\right)$$

Gagologdex

$$10{\uparrow}^{8}10{\uparrow}^{7}100 \approx f_9\left(f_8\left(100\right)\right)$$

Gaspgoloctex

$$\mathrm{E100\#100\#100\#100\#100\#100\#100\#1\#2} \approx f_9\left(f_8\left(100\right)\right)$$

Gaspgolheptexioctex

$$\mathrm{E100\#100\#100\#100\#100\#100\#100\#2\#2} \approx f_9\left(f_8^2(100)\right)$$

Tria-dekaxis

$$10{\uparrow}^{8}10{\uparrow}^{8}10 = \{10,3,9\}$$
$$\approx f_9^2(10)$$

Ogdagolplex

$$10{\uparrow}^{8}10{\uparrow}^{8}100 \approx f_9^2(100)$$

Ginorgoloctex

$$\mathrm{E100\#100\#100\#100\#100\#100\#100\#100\#2} \approx f_9^2\left(100\right)$$

Gaspgolduoctex

$$\mathrm{E100\#100\#100\#100\#100\#100\#100\#1\#3} \approx f_9^2\left(f_8\left(100\right)\right)$$

Gaspgolheptexiduoctex

$$\mathrm{E100\#100\#100\#100\#100\#100\#100\#2\#3} \approx f_9^2\left(f_8^2\left(100\right)\right)$$

Tetra-dekaxis

$$10{\uparrow}^{9}4 = \{10,4,9\}$$
$$\approx f_9^3(10)$$

Ogdagolduplex

$$10{\uparrow}^{8}10{\uparrow}^{8}10{\uparrow}^{8}100 \approx f_9^3(100)$$

Ginorgolduoctex

$$\mathrm{E100\#100\#100\#100\#100\#100\#100\#100\#3} \approx f_9^3(100)$$

$$10\uparrow^{9}5 = \{10,5,9\}$$
$$\approx f_9^4(10)$$

Ogdagoltreplex

$$10{\uparrow}^{8}10{\uparrow}^{8}10{\uparrow}^{8}10{\uparrow}^{8}100 \approx f_9^4(100)$$

Triennet

$$9{\uparrow}^{9}9 = \{9,9,9\}$$
$$\approx f_{10}(9)$$

Deka-dekaxis

$$10{\uparrow}^{9}10 = \{10,10,9\}$$
$$\approx f_{10}(10) = f_{\omega}(10)$$

Dekalum

$$f_{10}(10) = f_{\omega}(10)$$

$$10{\uparrow}^{9}20 = \{10,20,9\}$$
$$\approx f_{10}(20)$$

$$10{\uparrow}^{9}20 = \{10,20,9\}$$
$$\approx f_{10}(20)$$

$$10{\uparrow}^{9}30 = \{10,30,9\}$$
$$\approx f_{10}(30)$$

$$10{\uparrow}^{9}40 = \{10,40,9\}$$
$$\approx f_{10}(40)$$

$$10\uparrow^{9}50 = \{10,50,9\}$$
$$\approx f_{10}(50)$$

$$10\uparrow^{9}60 = \{10,60,9\}$$
$$\approx f_{10}(60)$$

$$10\uparrow^{9}70 = \{10,70,9\}$$
$$\approx f_{10}(70)$$

$$10\uparrow^{9}80 = \{10,80,9\}$$
$$\approx f_{10}(80)$$

$$10{\uparrow}^{9}90 = \{10,90,9\}$$
$$\approx f_{10}(90)$$

Hecta-dekaxis

$$10{\uparrow}^{9}100 = \{10,100,9\}$$
$$\approx f_{10}(100)$$

Novagolduex

$$10\uparrow\uparrow 10\uparrow^{9} 100 \approx f_3\left(f_{10}\left(100\right)\right)$$

Novagolthrex

$$10{\uparrow\uparrow\uparrow}10{\uparrow}^{9}100 \approx f_4\left(f_{10}\left(100\right)\right)$$

Novagolquadrex

$$10{\uparrow\uparrow\uparrow\uparrow}10{\uparrow}^{9}100 \approx f_5\left(f_{10}\left(100\right)\right)$$

Novagolquinex

$$10{\uparrow\uparrow\uparrow\uparrow\uparrow}10{\uparrow}^{9}100 \approx f_6\left(f_{10}\left(100\right)\right)$$

Novagolhex

$$10{\uparrow}^{6}10{\uparrow}^{9}100 \approx f_7\left(f_{10}\left(100\right)\right)$$

Novagolhepex

$$10{\uparrow}^{7}10{\uparrow}^{9}100 \approx f_8\left(f_{10}\left(100\right)\right)$$

Novagologdex

$$10{\uparrow}^{9}101 = \{10,101,9\}$$
$$\approx f_9\left(f_{10}\left(100\right)\right)$$

Gargantuul

E100##9

$\approx f_{10}(101)$

Gargantuuloctex

$$\mathrm{E100\#100\#100\#100\#100\#100\#100\#100\#101} \approx f_{10}(101)$$

Chilia-dekaxis

$$\mathrm{E1\#1\#1\#1\#1\#1\#1\#1000} \approx f_{10}(1000)$$

Myria-dekaxis

$$\mathrm{E1\#1\#1\#1\#1\#1\#1\#10\ 000} \approx f_{10}\left(10\ 000\right)$$

$$\mathrm{E1\#1\#1\#1\#1\#1\#1\#100\ 000} \approx f_{10}(10\ 000)$$

$$\mathrm{E1\#1\#1\#1\#1\#1\#1\#1\ 000\ 000} \approx f_{10}\left(10^{6}\right)$$

$$\mathrm{E1\#1\#1\#1\#1\#1\#1\#10\ 000\ 000} \approx f_{10}\left(10^{7}\right)$$

$$\mathrm{E1\#1\#1\#1\#1\#1\#1\#10\ 000\ 000\ 000} \approx f_{10}\left(10^{10}\right)$$

GoogolInovex

$$10{\uparrow}^{9}(10{\uparrow}100) \approx f_{10}\left(f_2\left(324\right)\right)$$

Googolennex

$$\mathrm{E100\#1\#1\#1\#1\#1\#1\#1\#1\#2} \approx f_{10}\left(f_2\left(324\right)\right)$$

GiggolInovex

$$10{\uparrow}^{9}10{\uparrow\uparrow}100 \approx f_{10}\left(f_3\left(100\right)\right)$$

Grangolennex

$$\mathrm{E100\#100\#1\#1\#1\#1\#1\#1\#1\#2} \approx f_{10}\left(f_3\left(100\right)\right)$$

GaggoInovex

$$10{\uparrow}^{9}10{\uparrow}{\uparrow}{\uparrow}100 \approx f_{10}\left(f_4\left(100\right)\right)$$

Greagolennex

$$\mathrm{E100\#100\#100\#1\#1\#1\#1\#1\#1\#2} \approx f_{10}\left(f_4\left(100\right)\right)$$

GeegolInovex

$$10\uparrow^{9}10\uparrow\uparrow\uparrow\uparrow100$$
$$\approx f_{10}\left(f_5\left(100\right)\right)$$

Gigangolennex

$$\mathrm{E100\#100\#100\#100\#1\#1\#1\#1\#1\#2} \approx f_{10}\left(f_5\left(100\right)\right)$$

GigoInovex

$$10\uparrow^{9}10\uparrow\uparrow\uparrow\uparrow\uparrow 100 \approx f_{10}\left(f_{6}\left(100\right)\right)$$

Gorgegolennex

$$\mathrm{E100\#100\#100\#100\#100\#1\#1\#1\#1\#2} \approx f_{10}\left(f_6\left(100\right)\right)$$

GoggolInovex

$$10\uparrow^{9}10\uparrow^{6}100 \approx f_{10}\left(f_{7}\left(100\right)\right)$$

Gulgolennex

$$\mathrm{E100\#100\#100\#100\#100\#100\#1\#1\#1\#2} \approx f_{10}\left(f_7\left(100\right)\right)$$

Gagolnovex

$$10{\uparrow}^{9}10{\uparrow}^{7}100 \approx f_{10}\left(f_{8}\left(100\right)\right)$$

Gaspgolennex

$$\mathrm{E100\#100\#100\#100\#100\#100\#100\#1\#1\#2} \approx f_{10}\left(f_8\left(100\right)\right)$$

Ogdagolnovex

$$10{\uparrow}^{9}10{\uparrow}^{8}100 \approx f_{10}\left(f_{9}\left(100\right)\right)$$

Ginorgolennex

$$\mathrm{E100\#100\#100\#100\#100\#100\#100\#100\#1\#2} \approx f_{10}\left(f_9\left(100\right)\right)$$

Ginorgoloctexiennex

$$\mathrm{E100\#100\#100\#100\#100\#100\#100\#100\#2\#2} \approx f_{10}\left(f_9^2\left(100\right)\right)$$

Tria-endekaxis

$$10{\uparrow}^{9}10{\uparrow}^{9}10 = \{10,3,10\}$$
$$\approx f_{10}^{2}(10)$$

Novagolplex

$$10\uparrow^{9}10\uparrow^{9}100 \approx f_{10}^{2}(100)$$

Gargantuulennex

$$\mathrm{E100\#100\#100\#100\#100\#100\#100\#100\#100\#2} \approx f_{10}^{2}(100)$$

Ginorgolduennex

$$\mathrm{E100\#100\#100\#100\#100\#100\#100\#100\#1\#3} \approx f_{10}^{2}\left(f_{9}\left(100\right)\right)$$

Ginorgoloctexiduennex

$$\mathrm{E100\#100\#100\#100\#100\#100\#100\#100\#2\#3} \approx f_{10}^{2}\left(f_{9}^{2}\left(100\right)\right)$$

Tetra-endekaxis

$$10{\uparrow}^{10}4 = \{10,4,10\}$$
$$\approx f_{10}^{3}(10)$$

Novagolduplex

$$10{\uparrow}^{9}10{\uparrow}^{9}10{\uparrow}^{9}100 \approx f_{10}^{3}(100)$$

Gargantuulduennex

$$\mathrm{E100\#100\#100\#100\#100\#100\#100\#100\#100\#3} \approx f_{10}^{3}(100)$$

$$10\uparrow^{9}10\uparrow^{9}10\uparrow^{9}10\uparrow^{9}10 = \{10,5,10\}$$
$$\approx f_{10}^{4}(10)$$

Novagoltreplex

$$10{\uparrow}^{9}10{\uparrow}^{9}10{\uparrow}^{9}10{\uparrow}^{9}100 \approx f_{10}^{4}(100)$$

$$10\uparrow^{10}6 = \{10,6,10\}$$
$$\approx f_{10}^{5}(10)$$

$$10\uparrow^{10}7 = \{10,7,10\}$$
$$\approx f_{10}^{6}(10)$$

$$10\uparrow^{10}8 = \{10,8,10\}$$
$$\approx f_{10}^{7}(10)$$

$$10\uparrow^{10}9 = \{10,9,10\}$$
$$\approx f_{10}^{8}(10)$$

Tridecal

$$10{\uparrow}^{10}10 = \{10,10,10\}$$
$$\approx f_{10}^{9}(10)$$

Ununalum

$f_{11}(10)$

$$10\uparrow^{10}20 = \{10,20,10\}$$
$$\approx f_{11}(20)$$

$$10\uparrow^{10}30 = \{10,30,10\}$$
$$\approx f_{11}(30)$$

$$10\uparrow^{10}40 = \{10,40,10\}$$
$$\approx f_{11}(40)$$

$$10\uparrow^{10}50 = \{10,50,10\}$$
$$\approx f_{11}(50)$$

$$10{\uparrow}^{10}60 = \{10,60,10\}$$
$$\approx f_{11}(60)$$

$$10{\uparrow}^{10}70 = \{10,70,10\}$$
$$\approx f_{11}(70)$$

$$10{\uparrow}^{10}80 = \{10,80,10\}$$
$$\approx f_{11}(80)$$

$$10{\uparrow}^{10}90 = \{10,90,10\}$$
$$\approx f_{11}(90)$$

Hecta-endekaxis

$$10{\uparrow}^{10}100 = \{10,100,10\}$$
$$\approx f_{11}(100)$$

Dekagolnovex

$$10{\uparrow}^{10}101 = \{10,101,10\}$$
$$\approx f_{11}(101)$$

Googondol

$$\text{E100\#\#10} \approx f_{11}(101)$$

Googondolennex

$$\mathrm{E100\#100\#100\#100\#100\#100\#100\#100\#100\#101} \approx f_{11}(101)$$

Chilia-endekaxis

$$\mathrm{E1\#1\#1\#1\#1\#1\#1\#1\#1000} \approx f_{11}(10^3)$$

Myria-endekaxis

$$\mathrm{E1\#1\#1\#1\#1\#1\#1\#1\#10\ 000} \approx f_{11}(10^4)$$

$$\mathrm{E1\#1\#1\#1\#1\#1\#1\#1\#100\ 000} \approx f_{11}(10^5)$$

$$\mathrm{E1\#1\#1\#1\#1\#1\#1\#1\#1\ 000\ 000} \approx f_{11}(10^6)$$

$$\mathrm{E1\#1\#1\#1\#1\#1\#1\#1\#10\ 000\ 000} \approx f_{11}(10^7)$$

$$\mathrm{E1\#1\#1\#1\#1\#1\#1\#1\#10\ 000\ 000\ 000} \approx f_{11}(10^{10})$$

Googoldekex

$$10{\uparrow}^{10}(10{\uparrow}100) \approx f_{11}\left(f_2\left(324\right)\right)$$

Googoldecex

$$\mathrm{E100\#1\#1\#1\#1\#1\#1\#1\#1\#2} \approx f_{11}\left(f_2\left(324\right)\right)$$

Giggoldekex

$$10{\uparrow}^{10}10{\uparrow\uparrow}100 \approx f_{11}\left(f_3\left(100\right)\right)$$

Grangoldecex

$$\mathrm{E100\#100\#1\#1\#1\#1\#1\#1\#1\#1\#2} \approx f_{11}\left(f_3\left(100\right)\right)$$

Gaggoldekex

$$10{\uparrow}^{10}10{\uparrow}{\uparrow}{\uparrow}100 \approx f_{11}\left(f_4(100)\right)$$

Greagoldecex

$$\mathrm{E100\#100\#100\#1\#1\#1\#1\#1\#1\#1\#2} \approx f_{11}\left(f_4\left(100\right)\right)$$

Geegoldekex

$$10{\uparrow}^{10}10{\uparrow\uparrow\uparrow\uparrow}100 \approx f_{11}\left(f_5\left(100\right)\right)$$

Gigangoldecex

$$\mathrm{E100\#100\#100\#100\#1\#1\#1\#1\#1\#1\#2} \approx f_{11}\left(f_5\left(100\right)\right)$$

Gigoldekex

$$10{\uparrow}^{10}10{\uparrow}{\uparrow}{\uparrow}{\uparrow}{\uparrow}100 \approx f_{11}\left(f_6\left(100\right)\right)$$

Gorgegoldecex

$$\mathrm{E100\#100\#100\#100\#100\#1\#1\#1\#1\#1\#2} \approx f_{11}\left(f_6\left(100\right)\right)$$

Goggoldekex

$$10{\uparrow}^{10}10{\uparrow}^{6}100 \approx f_{11}\left(f_{7}\left(100\right)\right)$$

Gulgoldecex

$$\mathrm{E100\#100\#100\#100\#100\#100\#1\#1\#1\#1\#2} \approx f_{11}\left(f_7\left(100\right)\right)$$

Gagoldekex

$$10{\uparrow}^{10}10{\uparrow}^{7}100 \approx f_{11}\left(f_8\left(100\right)\right)$$

Gaspgoldecex

$$\mathrm{E100\#100\#100\#100\#100\#100\#100\#1\#1\#1\#2} \approx f_{11}\left(f_8\left(100\right)\right)$$

Ogdagoldekex

$$10{\uparrow}^{10}10{\uparrow}^{8}100 \approx f_{11}\left(f_{9}\left(100\right)\right)$$

Ginorgoldecex

$$\mathrm{E100\#100\#100\#100\#100\#100\#100\#100\#1\#1\#2} \approx f_{11}\left(f_9\left(100\right)\right)$$

Novagoldekex

$$10{\uparrow}^{10}10{\uparrow}^{9}100 \approx f_{11}\left(f_{10}\left(100\right)\right)$$

Gargantuuldecex

$$\mathrm{E100\#100\#100\#100\#100\#100\#100\#100\#100\#1\#2} \approx f_{11}\left(f_{10}\left(100\right)\right)$$

Gargantuulennexidecex

$$\mathrm{E100\#100\#100\#100\#100\#100\#100\#100\#100\#2\#2} \approx f_{11}\left(f_{10}^{2}\left(100\right)\right)$$

Gargantuulduennexidecex

$$\mathrm{E100\#100\#100\#100\#100\#100\#100\#100\#100\#3\#2} \approx f_{11}\left(f_{10}^{3}\left(100\right)\right)$$

Tria-dodekaxis

$$10{\uparrow}^{10}10{\uparrow}^{10}10 = \{10,3,11\}$$
$$\approx f_{11}^{2}(10)$$

Dekagolplex

$$10{\uparrow}^{10}10{\uparrow}^{10}100 \approx f_{11}^{2}(100)$$

Googondoldecex

E100#100#100#100#100#100#100#100#100#100#2

$$\approx f_{11}^{2}(100)$$

Gargantuuldudecex

$$\mathrm{E100\#100\#100\#100\#100\#100\#100\#100\#100\#1\#3} \approx f_{11}^{2}\left(f_{10}\left(100\right)\right)$$

Gargantuulennexidudecex

$$\mathrm{E100\#100\#100\#100\#100\#100\#100\#100\#100\#2\#3} \approx f_{11}^{2}\left(f_{10}^{2}(100)\right)$$

Gargantuulduennexidudecex

$$\mathrm{E100\#100\#100\#100\#100\#100\#100\#100\#100\#3\#3} \approx f_{11}^{2}\left(f_{10}^{3}\left(100\right)\right)$$

Tetra-dodekaxis

$$10{\uparrow}^{10}10{\uparrow}^{10}10{\uparrow}^{10}10 = \{10,4,11\}$$
$$\approx f_{11}^{3}(10)$$

Dekagolduplex

$$10{\uparrow}^{10}10{\uparrow}^{10}10{\uparrow}^{10}100$$
$$\approx f_{11}^{3}(100)$$

Googondoldudecex

E100#100#100#100#100#100#100#100#100#100#3

$$\approx f_{11}^{3}(100)$$

$$10\uparrow^{10}10\uparrow^{10}10\uparrow^{10}10\uparrow^{10}10 = \{10,5,11\}$$
$$\approx f_{11}^{4}(10)$$

Dekagoltreplex

$$10{\uparrow}^{10}10{\uparrow}^{10}10{\uparrow}^{10}10{\uparrow}^{10}100 \approx f_{11}^{4}(100)$$

$$10{\uparrow}^{11}6 = \{10,6,11\}$$
$$\approx f_{11}^{5}(10)$$

$$10\uparrow^{11}7 = \{10,7,11\}$$
$$\approx f_{11}^{6}(10)$$

$$10\uparrow^{11}8 = \{10,8,11\}$$
$$\approx f_{11}^{8}(10)$$

$$10\uparrow^{11}9 = \{10,9,11\}$$
$$\approx f_{11}^{8}(10)$$

Deka-dodekaxis

$$10\uparrow^{11}10 = \{10,10,11\}$$
$$\approx f_{11}^{9}(10)$$

Bunalum

$f_{12}(10)$

Triundecal

$$11{\uparrow}^{11}11 = \{11,11,11\}$$
$$\approx f_{12}(11)$$

$$10{\uparrow}^{11}12 = \{10,12,11\}$$
$$\approx f_{12}(12) = f_{\omega}(12)$$

$$10\uparrow^{11}20 = \{10,20,11\}$$
$$\approx f_{12}(20)$$

$$10\uparrow^{11}30 = \{10,30,11\}$$
$$\approx f_{12}(30)$$

$$10{\uparrow}^{11}40 = \{10,40,11\}$$
$$\approx f_{12}(40)$$

$$10\uparrow^{11}50 = \{10,50,11\}$$
$$\approx f_{12}(50)$$

$$10{\uparrow}^{11}60 = \{10,60,11\}$$
$$\approx f_{12}(60)$$

$$10{\uparrow}^{11}70 = \{10,70,11\}$$
$$\approx f_{12}(70)$$

$$10\uparrow^{11}80 = \{10,80,11\}$$
$$\approx f_{12}(80)$$

$$10{\uparrow}^{11}90 = \{10,90,11\}$$
$$\approx f_{12}(90)$$

Hecta-dodekaxis

$$10{\uparrow}^{11}100 = \{10,100,11\}$$
$$\approx f_{12}(100)$$

Googoadol

$$E100\#\#11 \approx f_{12}(100)$$

Chilia-dodekaxis

$$10{\uparrow}^{11}100 = \{10,1000,11\}$$
$$\approx f_{12}(1000)$$

Myria-dodekaxis

$$\{10,10000,11\}$$
$$\approx f_{12}(10000)$$

$$\{10,10,12\} \approx f_{12}^{9}(10)$$

$$\{10,11,12\}$$
$$\approx f_{12}^{10}(10) = f_{13}(10)$$

Trunalum

$f_{13}(10)$

Tridodecal

$$\{12,12,12\}$$
$$\approx f_{13}(12)$$

$$\{10,13,12\}$$
$$\approx f_{13}(13) = f_{\omega}(13)$$

$$\{10,20,12\}$$
$$\approx f_{13}(20)$$

$$\{10,30,12\}$$
$$\approx f_{13}(30)$$

$$\{10,40,12\}$$
$$\approx f_{13}(40)$$

$$\{10,50,12\}$$
$$\approx f_{13}(50)$$

$$\{10,60,12\}$$
$$\approx f_{13}(60)$$

$$\{10,70,12\}$$
$$\approx f_{13}(70)$$

$$\{10,80,12\}$$
$$\approx f_{13}(80)$$

$$\{10,90,12\}$$
$$\approx f_{13}(90)$$

Duodekagol

$$\{10,100,12\}$$
$$\approx f_{13}(100)$$

Goograndol

E100##12

$\approx f_{13}(100)$

Quadrunalum

$f_{14}(10)$

Goxiji

$$\{13,13,13\} \approx f_{14}(13)$$

$$\{10,14,13\}$$
$$\approx f_{14}(14) = f_{\omega}(14)$$

$$\{10,20,13\}$$
$$\approx f_{14}(20)$$

$$\{10,30,13\}$$
$$\approx f_{14}(30)$$

$$\{10,40,13\}$$
$$\approx f_{14}(40)$$

$$\{10,50,13\}$$
$$\approx f_{14}(50)$$

$$\{10,60,13\}$$
$$\approx f_{14}(60)$$

$$\{10,70,13\}$$
$$\approx f_{14}(70)$$

$$\{10,80,13\}$$
$$\approx f_{14}(80)$$

$$\{10,90,13\}$$
$$\approx f_{14}(90)$$

Tredekagol

$$\{10,100,13\}$$
$$\approx f_{14}(100)$$

Googreadol

$$\text{E100\#\#13} \approx f_{14}(100)$$

Quintunalum

$$f_{15}(10)$$

$$\{10,15,14\}$$
$$\approx f_{15}(15) = f_{\omega}(15)$$

$$\{10,20,14\}$$
$$\approx f_{15}(20)$$

$$\{10,30,14\}$$
$$\approx f_{15}(30)$$

$$\{10,40,14\}$$
$$\approx f_{15}(40)$$

$$\{10,50,14\}$$
$$\approx f_{15}(50)$$

$$\{10,60,14\}$$
$$\approx f_{15}(60)$$

Quattourdekagol

$$\{10,100,14\} \approx f_{15}(100)$$

Googigandol

$$\mathrm{E100\#\#14} \approx f_{15}(100)$$

Sextunalum

$f_{16}(10)$

$$\{10,16,15\}$$
$$\approx f_{16}(16) = f_{\omega}(16)$$

Quindekagol

$$\{10,100,15\}$$
$$\approx f_{16}(100)$$

Googorgedol

$$\mathrm{E100\#\#15} \approx f_{16}(100)$$

Septunalum

$f_{17}(10)$

$$\{10,17,16\}$$
$$\approx f_{17}(17) = f_{\omega}(17)$$

Sexdekagol

$$\{10,100,16\} \approx f_{17}(100)$$

Googuldol

E100##16
$\approx f_{17}(100)$

Octunalum

$f_{18}(10)$

$$\{10,18,17\}$$
$$\approx f_{18}(18) = f_{\omega}(18)$$

Septendekagol

$$\{10,100,17\} \approx f_{18}(100)$$

Googaspdol

$$\mathrm{E100\#\#17} \approx f_{18}(100)$$

Nonunalum

$f_{19}(10)$

$$\{10,19,18\}$$
$$\approx f_{19}(19) = f_{\omega}(19)$$

Octodekagol

$$\{10,100,18\}$$
$$\approx f_{19}(100)$$

Googinordol

$$\mathrm{E100\#\#18} \approx f_{19}(100)$$

Zeribalum

$f_{20}(10)$

$$\{10,20,19\}$$
$$\approx f_{20}(20) = f_{\omega}(20)$$

Novemdekagol

$$\{10,100,19\}$$
$$\approx f_{20}(100)$$

Googarganduul

$$\mathrm{E100\#\#19} \approx f_{20}(100)$$

Unibalum

$f_{21}(10)$

$$\{10,21,20\}$$
$$\approx f_{21}(21) = f_{\omega}(21)$$

Icosagol

$$\{10,100,20\}$$
$$\approx f_{21}(100)$$

Googonkosol

$$\mathrm{E100\#\#20} \approx f_{21}(100)$$

Bibalum

$f_{22}(10)$

Tribalum

$f_{23}(10)$

Quadribalum

$f_{24}(10)$

Quintibalum

$f_{25}(10)$

Sextibalum

$f_{26}(10)$

Qoflsol

$$10\uparrow\uparrow\uparrow

Septibalum

$f_{27}(10)$

Primitol

$$3\uparrow\uparrow\uparrow

Octibalum

$f_{28}(10)$

Nonibalum

$f_{29}(10)$

Zeritralum

$$f_{30}(10)$$

$$\{10,10,30\}$$
$$\approx f_{31}(10)$$

Unitralum

$f_{31}(10)$

Triacontagol

$$10\uparrow\uparrow\uparrow\ldots\uparrow\uparrow\uparrow 100$$
(30 arrows)
$$= \{10,100,30\}$$
$$\approx f_{31}(100)$$

Googontritol

$$\mathrm{E100\#\#30} \approx f_{31}(100)$$

Bitralum

$f_{32}(10)$

Tritralum

$f_{33}(10)$

Quadritralum

$f_{34}(10)$

Quintitralum

$f_{35}(10)$

Sextitralum

$f_{36}(10)$

Septitralum

$f_{37}(10)$

Octitralum

$f_{38}(10)$

Nonitralum

$f_{39}(10)$

Zeriquadralum

$$f_{40}\,(10)$$

Uniquadralum

$f_{41}(10)$

Tetracontagol

$$10{\uparrow\uparrow\uparrow}\ldots{\uparrow\uparrow\uparrow}100$$
(40 arrows)
$$= \{10,100,40\}$$
$$\approx f_{41}(100)$$

Googonsartol

$$\mathrm{E100\#\#40} \approx f_{41}(100)$$

Biquadralum

$f_{42}(10)$

Triquadralum

$f_{43}(10)$

Quadriquadralum

$f_{44}(10)$

Quintiquadralum

$f_{45}(10)$

Sextiquadralum

$f_{46}(10)$

Septiquadralum

$f_{47}(10)$

Octiquadralum

$f_{48}(10)$

Noniquadralum

$f_{49}(10)$

Zeriquintalum

$$f_{50}(10)$$

Uniquintalum

$f_{51}(10)$

Hoflsol

$$10\uparrow\uparrow\uparrow\ldots\uparrow\uparrow\uparrow 10$$
(50 arrows)
$$= \{10,10,50\}$$
$$\approx f_{51}(10)$$

Gol

$$50\uparrow\uparrow\uparrow\ldots\uparrow\uparrow\uparrow 50$$
(50 arrows)
$$= \{50,50,50\}$$
$$\approx f_{51}(50)$$

Pentacontagol

$$10{\uparrow\uparrow\uparrow}\ldots{\uparrow\uparrow\uparrow}100$$
(50 arrows)
$$= \{10,100,50\}$$
$$\approx f_{51}(100)$$

Googonpetol

$$\mathrm{E100\#\#50} \approx f_{51}(100)$$

Biquintalum

$f_{52}(10)$

Triquintalum

$f_{53}(10)$

Quadriquintalum

$f_{54}(10)$

Quintiquintalum

$f_{55}(10)$

Sextiquintalum

$f_{56}(10)$

BLT

$$10\uparrow\uparrow\uparrow\ldots\uparrow\uparrow\uparrow 100$$
(55 arrows)
$$= \{10,100,55\}$$
$$\approx f_{56}(100)$$

Septiquintalum

$f_{57}(10)$

Octiquintalum

$f_{58}(10)$

Noniquintalum

$f_{59}(10)$

Zerisextalum

$$f_{60}(10)$$

Unisextalum

$f_{61}(10)$

Hexacontagol

$$10{\uparrow\uparrow\uparrow}\ldots{\uparrow\uparrow\uparrow}100$$
(60 arrows)
$$= \{10,100,60\}$$
$$\approx f_{61}(100)$$

Googonextol

$$\mathrm{E100\#\#60} \approx f_{61}(100)$$

Bisextalum

$f_{62}(10)$

Trisextalum

$$f_{63}(10)$$

Quadrisextalum

$f_{64}(10)$

Quintisextalum

$f_{65}(10)$

Sextisextalum

$f_{66}(10)$

Septisextalum

$$f_{67}(10)$$

Octisextalum

$f_{68}(10)$

Nonisextalum

$f_{69}(10)$

Zeriseptalum

$f_{70}(10)$

Uniseptalum

$f_{71}\,(10)$

Heptacontagol

$$10{\uparrow\uparrow\uparrow}\ldots{\uparrow\uparrow\uparrow}100$$
(70 arrows)
$$= \{10,100,70\}$$
$$\approx f_{71}(100)$$

Googoneptol

$$\mathrm{E100\#\#70} \approx f_{71}(100)$$

Biseptalum

$f_{72}(10)$

Triseptalum

$f_{73}(10)$

Quadriseptalum

$f_{74}(10)$

Quintiseptalum

$f_{75}(10)$

Sextiseptalum

$f_{76}(10)$

Septiseptalum

$f_{77}(10)$

Octiseptalum

$f_{78}(10)$

Noniseptalum

$f_{79}\,(10)$

Zeroctalum

$$f_{80}(10)$$

Unoctalum

$f_{81}(10)$

Octacontagol

$$10{\uparrow\uparrow\uparrow}\ldots{\uparrow\uparrow\uparrow}100$$
(80 arrows)
$$= \{10,100,80\}$$
$$\approx f_{81}(100)$$

Googonogdol

$$\mathrm{E}100\#\#80 \approx f_{81}(100)$$

Boctalum

$f_{82}(10)$

Troctalum

$f_{83}(10)$

Quadroctalum

$f_{84}(10)$

Quintoctalum

$f_{85}(10)$

Sextoctalum

$f_{86}(10)$

Septoctalum

$f_{87}(10)$

Octoctalum

$$f_{88}(10)$$

Nonoctalum

$f_{89}(10)$

Zerinonalum

$$f_{90}\,(10)$$

Uninonalum

$f_{91}(10)$

Boogolspeck

$10\uparrow\uparrow\uparrow\ldots\uparrow\uparrow\uparrow 10$
(90 arrows)
$\{10,10,90\}$
$\approx f_{91}(10)$

Nonacontagol

$10\uparrow\uparrow\uparrow\ldots\uparrow\uparrow\uparrow 100$
(90 arrows)
$\{10,100,90\}$
$\approx f_{91}(100)$

Googonentol

$$\mathrm{E100\#\#90} \approx f_{91}(100)$$

Binonalum

$f_{92}(10)$

Trinonalum

$f_{93}(10)$

Quadrinonalum

$f_{94}(10)$

Quintinonalum

$f_{95}(10)$

Sextinonalum

$f_{96}(10)$

Boogolcrumb

$10\uparrow\uparrow\uparrow\ldots\uparrow\uparrow\uparrow 100$
(95 arrows)
$\{10,100,95\}$
$\approx f_{96}(100)$

Septinonalum

$f_{97}(10)$

Octinonalum

$f_{98}(10)$

Centifact

100*
(Mixed factorial)
$\approx \{10,101,97\}$
$\approx f_{98}(100)$

Noninonalum

$f_{99}(10)$

$$f_{99}(99) = f_{\omega}(99)$$
$$\approx \{10,99,98\}$$

Boogahundred

$$100\uparrow\uparrow\uparrow\ldots\uparrow\uparrow\uparrow 100$$
(98 arrows)
$$\{100,100,98\}$$
$$\approx f_{99}(100)$$

Hektalum

$$f_{100}(10)$$

Octal-golsol

$s(8,100,1,2) = s(8,8,100)$

(Strongarray notation)

$= \{8,8,100\}$

$\approx f_{\omega}(100) = f_{100}(100)$

Boogolchunk

$$10\uparrow\uparrow\uparrow\ldots\uparrow\uparrow\uparrow 10$$
(99 arrows)
$$= \{10,10,99\}$$
$$\approx f_{\omega}(100)$$

Boogol

$$\{10,10,100\}$$
$$= \mathrm{s}(10,100,1,2)$$
$$\approx f_{\omega}(100)$$

Golsolunex

$$\begin{gathered}\mathrm{s}(10,\mathrm{s}(10,100,1,2)) \\ = \{10,\{10,10,100\}\} \\ \approx f_{\omega}(100)\end{gathered}$$

Golsolduex

$$\begin{gathered}\mathrm{s}(10,\mathrm{s}(10,100,1,2),2) \\ = \{10,\{10,10,100\},2\} \\ \approx f_{\omega}(100)\end{gathered}$$

Golsolthrex

$$\begin{gathered}\mathrm{s}(10,\mathrm{s}(10,100,1,2),3) \\ = \{10,\{10,10,100\},3\} \\ \approx f_{\omega}(100)\end{gathered}$$

Duodecimal-golsol

$$\begin{aligned} &\mathrm{s}(12,100,1,2) \\ &= \{12,12,100\} \\ &\approx f_{\omega}(100) \end{aligned}$$

Woogol

$$10\uparrow\uparrow\uparrow\ldots\uparrow\uparrow\uparrow 100$$
(100 arrows)
$$= \{10,100,100\}$$
$$\approx f_{\omega}(100)$$

Hyperon

$$100\uparrow\uparrow\uparrow\ldots\uparrow\uparrow\uparrow 100$$
(100 arrows)
$$= \{100,100,100\}$$
$$\approx f_{\omega}(101)$$

Gugold

$$\mathrm{E100\#\#100} \approx f_{\omega}(101)$$

Boogolbunch

$10\uparrow\uparrow\uparrow\ldots\uparrow\uparrow\uparrow 10$
(101 arrows)
$\{10,10,101\}$
$\approx f_{\omega}(101)$

Astragold

$$\approx f_{\omega}(101)$$

Boogolcrowd

$10\uparrow\uparrow\uparrow\ldots\uparrow\uparrow\uparrow 10$
(105 arrows)
$\{10,10,105\}$
$\approx f_{\omega}(105)$

Wiggol

$10{\uparrow\uparrow\uparrow}\ldots{\uparrow\uparrow\uparrow}100$
(200 arrows)
$\{10,100,200\}$
$\approx f_{\omega}(200)$

Hyperfaxul

$$200![1] = 200!200$$
$$\approx \{10,198,201\}$$
$$\approx f_{\omega}(201)$$

Miser

256[258]
(256 in a 258-gon)
$\approx f_\omega(257)$

Waggol

$10\uparrow\uparrow\uparrow\ldots\uparrow\uparrow\uparrow 100$
(300 arrows)
$\{10,100,300\}$
$\approx f_{\omega}(300)$

Weegol

$10\uparrow\uparrow\uparrow\ldots\uparrow\uparrow\uparrow 100$
(400 arrows)
$\{10,100,400\}$
$\approx f_{\omega}(400)$

Wigol

$10{\uparrow\uparrow\uparrow}\ldots{\uparrow\uparrow\uparrow}100$
(500 arrows)
$\{10,100,500\}$
$\approx f_{\omega}(500)$

Woggol

$10\uparrow\uparrow\uparrow\ldots\uparrow\uparrow\uparrow 100$
(600 arrows)
$\{10,100,600\}$
$\approx f_\omega(600)$

Wagol

$$10\uparrow\uparrow\uparrow\ldots\uparrow\uparrow\uparrow 100$$
(700 arrows)
$$\{10,100,700\}$$
$$\approx f_{\omega}(700) = f_{700}(700)$$

Kilalum

$$f_{1000}(10)$$

Gamoogol

$100\uparrow\uparrow\uparrow\ldots\uparrow\uparrow\uparrow 50$
(999 arrows)
$\{100,50,999\}$
$\approx f_{1000}(50)$

Bwoogol

$10\uparrow\uparrow\uparrow\ldots\uparrow\uparrow\uparrow 10$
(1000 arrows)
$\{10,10,1000\}$
$\approx f_\omega(1000)$

Gugoldachime

$$\mathrm{E1000\#\#1000}$$
$$\approx f_{\omega}(1000)$$

Gugoldatoll

$$\mathrm{E10000\#\#10000} \approx f_{\omega}(10000)$$

Boogolgong

$10\uparrow\uparrow\uparrow\ldots\uparrow\uparrow\uparrow 10$
(100000 arrows)
$\{10,10,100000\}$
$\approx f_{\omega}(100000)$

Gugoldagong

$$\mathrm{E100\ 000\#\#100\ 000} \approx f_{\omega}(100000)$$

Megalum

$$f_{10^6}(10)$$

Gigalum

$$f_{10^9}(10)$$

Booilsol

$$\begin{gathered}\mathrm{s}(10,2,2,2) \\ = \{10,10,\{10,10\}\} \\ \approx f_{10^{10}}(10)\end{gathered}$$

Teralum

$$f_{10^{12}}(10)$$

Petalum

$f_{10^{15}}(10)$

Exalum

$$f_{10^{18}}(10)$$

Zettalum

$$f_{10^{21}}(10)$$

Yottalum

$$f_{10^{24}}(10)$$

Boogagoogol

$$\{\{10,100\},\{10,100\},\{10,100\}\text{-}2\}$$
$$= \{10^{100},10^{100},10^{100}\text{-}2\}$$
$$\approx f_{\omega}\left(10^{100}\right)$$

Gaggoogol

$A(10^{100},10^{100})$
(Ackermann function)
$\{2,(10^{100}+3)-3,10^{100}-2\}$
$\approx f_{\omega}\left(10^{100}\right)$

Dugoogol

$$\{100,50,10^{100}\text{-}1\} \approx f_{\omega}\left(10^{100}\right)$$

Dugoogodul

$$\{\{100,50,10^{100}\text{-}1\},50,10^{100}\text{-}1\} \approx f_{\omega}\left(10^{100}\right)$$

Dugoodugol

$$\{100,\{100,50,10^{100}\text{-}1\},10^{100}\text{-}1\} \approx f_{\omega}\left(10^{100}\right)$$

Dugoodugodul

$$\{\{100,\{100,50,10^{100}\text{-}1\},10^{100}\text{-}1\},\{100,50,10^{100}\text{-}1\},10^{100}\text{-}1\} \approx f_{\omega}\left(10^{100}\right)$$

Gongol

$10\uparrow\uparrow\uparrow\ldots\uparrow\uparrow\uparrow 100$
(10^{100} arrows)
$\{10,100,10^{100}\}$
$\approx f_{\omega}\left(10^{100}\right)$

Great googol (Saibian)

$$\begin{aligned}\mathrm{E100\#\#1\#2} &= \mathrm{E100\#\#(E100)} \\ &\approx f_{\omega}\left(10^{100}\right)\end{aligned}$$

Googoldiflux

$$\{10, 10^{100}, 10^{100}\} \approx f_{\omega}\left(10^{100}\right)$$

Deltagoogolplex

g(20000,g(2,2,50,100),50,100)
(Ackermann function)
$\approx \{100,100000,10^{5000}\text{-}1\}$
$\approx f_{\omega}\left(10^{5000}\right)$

Boogagoogolplex

$$\{10^{10^{100}}, 10^{10^{100}}, 10^{10^{100}}-2\} \approx f_{\omega}\left(f_2^2(324)\right)$$

Great grangol

$$\begin{aligned} &\mathrm{E100\#\#2\#2} \\ &\approx f_{\omega}\left(f_{3}\left(100\right)\right) \end{aligned}$$

Moser

2[2[5]]
(2 in a mega-gon)

Joyce's tetratri

g(2,1,1,4,3,3)
(Joyce's More Generalized Exponential Notation)
$= \{3,3,\{3,3,3\}\text{-}1\}$
$\approx f_{\omega}\left(f_4(3)\right)$

Tritriplex

$3\uparrow\uparrow\uparrow\ldots\uparrow\uparrow\uparrow 3$
(3↑↑↑3 arrows)
$\{3,3,1,2\} = \{3,3,\{3,3,3\}\}$
$\approx f_\omega\left(f_4(3)\right)$

Great greagol

$$\mathrm{E100\#\#3\#2} \approx f_{\omega}\left(f_4\left(100\right)\right)$$

Graham grahal

$3\uparrow\uparrow\uparrow\ldots\uparrow\uparrow\uparrow 3$
(3↑↑↑↑3 arrows)
$g_2 = \{3,3,\{3,3,4\}\}$
$\approx f_\omega\left(f_4\left(f_3(f_2(37))\right)\right)$

Great gigangol

$$\mathrm{E100\#\#4\#2} \approx f_{\omega}\left(f_{5}\left(100\right)\right)$$

Great gorgegol

$$\mathrm{E100\#\#5\#2} \approx f_{\omega}\left(f_{6}\left(100\right)\right)$$

Great gulgol

$$\mathrm{E100\#\#6\#2} \approx f_{\omega}\left(f_{7}\left(100\right)\right)$$

Great gaspgol

$$\mathrm{E100\#\#7\#2} \approx f_{\omega}\left(f_{8}\left(100\right)\right)$$

Great ginorgol

$$\mathrm{E100\#\#8\#2} \approx f_{\omega}\left(f_{9}\left(100\right)\right)$$

Great gargantuul

$$\begin{aligned} &\text{E100\#\#9\#2} \\ &\approx f_{\omega}\left(f_{10}\left(100\right)\right) \end{aligned}$$

Tridecalplex

$$10{\uparrow\uparrow\uparrow}\ldots{\uparrow\uparrow\uparrow}10$$
$$(\{10,10,10\} \text{ arrows})$$
$$\{10,10,\{10,10,10\}\}$$
$$\approx f_{\omega}\left(f_{11}\left(10\right)\right)$$

Great googondol

$$\mathrm{E100\#\#10\#2} \approx f_{\omega}\left(f_{11}\left(100\right)\right)$$

Primitolplex

$$\begin{gathered}\mathrm{s}(3,3,2,2) \\ = \{3,3,\{3,3,27\}\} \\ \approx f_{\omega}\left(f_{28}(3)\right)\end{gathered}$$

Magthree

$$\begin{aligned}&\text{A(A(61,61),A(61,61))}\\ &\approx \{10,10,\{10,10,59\}\}\\ &\approx f_{\omega}\left(f_{60}\left(10\right)\right)\end{aligned}$$

Double Centifact

$$
\begin{aligned}
&100{**}\\
&\approx \{10,10,\{100,101,97\}\}\\
&\approx f_{\omega}\left(f_{98}\left(100\right)\right)
\end{aligned}
$$

Boogolplex

$$\{10,10,\{10,10,100\}\}$$
$$\approx f_\omega\left(f_\omega(101)\right) = f_\omega^2(101)$$

Tris-hyperon

$100\{X\}100\{X\}100$
(X-Sequence Hyper-Exponential Notation)
$\{100,3,1,2\} = \{100,100,\{100,100,100\}\}$
$\approx f_{\omega}^{2}(101)$

Gugolda-suplex

$$\begin{aligned} &\mathrm{E100\#\#100\#2} \\ &\approx f_{\omega}^{2}(101) \end{aligned}$$

Kilohyperfaxul

$$(200![1])![1]$$
$$\approx \{10,198,\{100,198,201\}\}$$
$$\approx f_{\omega}^{2}(202)$$

Gugolda-suplexichime

$$\mathrm{E1000\#\#1000\#2} \approx f_{\omega}^{2}(1000)$$

Gugolda-suplexitoll

$$\begin{aligned}&\mathrm{E10000\#\#10000\#2}\\&\approx f_{\omega}^{2}\left(10000\right)\end{aligned}$$

Gugolda-suplexigong

$$\mathrm{E}100\ 000\#\#100\ 000\#2 \approx f_{\omega}^{2}(100\ 000)$$

Joyce's pentatri

$$\begin{gathered} g(3,1,1,4,3,3) \\ = \{3,3,\{3,3,\{3,3,3\}\text{-}1\}\text{-}1\} \\ \approx f_{\omega}^{2}\left(f_{4}(3)\right) \end{gathered}$$

Tritriplexian

$$\{3,4,1,2\} = \{3,3,\{3,3,\{3,3,3\}\}\}$$
$$\approx f_{\omega}^{2}\left(f_4(3)\right)$$

Joycian grand tridecal

$$\begin{gathered}\text{g}(3,1,1,11,10,10) \\ = \{10,10,\{10,10,\{10,10,10\}\text{-}1\}\text{-}1\} \\ \approx f_{\omega}^{3}(10) = f_{\omega}^{2}\left(f_{10}(10)\right)\end{gathered}$$

Primitolbiplex

$$\begin{gathered}\mathrm{s}(3,4,2,2) \\ = \{3,3,\{3,3,\{3,3,27\}\}\} \\ \approx f_{\omega}^{2}\left(f_{28}\left(3\right)\right)\end{gathered}$$

Triple Centifact

$$
\begin{aligned}
&100*** \\
&\approx \{10,10,\{10,10,\{100,101,97\}\}\} \\
&\approx f_{\omega}^{2}\left(f_{98}(3)\right)
\end{aligned}
$$

Boogolduplex

$$\{10,10,\{10,10,\{10,10,100\}\}\}$$
$$\approx f_{\omega}^{3}(101)$$

Ter-hyperon

$$100\{X+1\}4$$
$$\{100,4,1,2\}$$
$$\approx f_{\omega}^{3}(101)$$

Gugolda-dusuplex

$$\mathrm{E100\#\#100\#3} \approx f_{\omega}^{3}(101)$$

Megahyperfaxul

$$((200![1])![1])![1]$$
$$\approx \{10,198,\{10,198,\{10,198,201\}\}\}$$
$$\approx f_{\omega}^{3}(202)$$

Gugolda-dusuplexichime

$$\mathrm{E1000\#\#1000\#3} \approx f_{\omega}^{3}(1000)$$

Gugolda-dusuplexitoll

$$\mathrm{E10000\#\#10000\#3} \approx f_{\omega}^{3}(10000)$$

Gugolda-dusuplexigong

$$\begin{gathered}\text{E}100\ 000\#\#100\ 000\#3 \\ \approx f_{\omega}^{3}(100\ 000)\end{gathered}$$

Primitoltriplex

$$\begin{gathered}\mathrm{s}(3,5,2,2) \\ = \{3,3,\{3,3,\{3,3,\{3,3,27\}\}\}\} \\ \approx f_{\omega}^{3}\left(f_{28}(3)\right)\end{gathered}$$

Quadruple Centifact

$$
\begin{aligned}
&100{*}{*}{*}{*} \\
&\approx \{10,10,\{10,10,\{10,10,\{100,101,97\}\}\}\} \\
&\approx f_{\omega}^{3}\left(f_{98}\left(100\right)\right)
\end{aligned}
$$

Boogoltriplex

$$\{10,10,\{10,10,\{10,10,\{10,10,100\}\}\}\} \approx f_{\omega}^{4}(101)$$

Pen-hyperon

$$100\{X+1\}5$$
$$= \{100,5,1,2\}$$
$$\approx f_{\omega}^{4}(101)$$

Gigahyperfaxul

$$(((200![1])![1])![1])![1]$$
$$\approx \{10,198,\{10,198,\{10,198,\{10,198,201\}\}\}\}$$
$$\approx f_{\omega}^{4}(202)$$

Primitolquadriplex

$$\begin{aligned} &\mathrm{s}(3,6,2,2) \\ &\approx \{3,6,1,2\} \\ &\approx f_{\omega}^{4}\left(f_{28}\left(3\right)\right) \end{aligned}$$

Quintuple Centifact

$$
\begin{aligned}
&100^{*}_{5} \\
&\approx \{10,6,1,2\} \\
&\approx f^{5}_{\omega}(98)
\end{aligned}
$$

Ex-hyperon

$$100\{X+1\}6$$
$$\approx \{100,6,1,2\}$$
$$\approx f_{\omega}^{5}(100)$$

Terahyperfaxul

$$((((200![1])![1])![1])![1])![1]$$
$$\text{E10\#\#201\#5}$$
$$\approx f_{\omega}^{5}(202)$$

Dihexar

$Q_{1,1}(6)$
(Q-supersystem)
$\approx \{6,7,1,2\}$
$\approx f_{\omega}^{6}(6) = f_{\omega+1}(6)$

Epi-hyperon

$$100\{X+1\}7$$
$$= \{100,7,1,2\}$$
$$\approx f_{\omega}^{6}(100)$$

Petahyperfaxul

$$(((((200![1])![1])![1])![1])![1])![1]$$
$$\approx \text{E10\#\#201\#6}$$
$$\approx f_{\omega}^{6}(202)$$

Graham-Rothschild Number

$$F^7(12)$$
$$\text{where } F(n) = 2\uparrow^n 3$$
$$\approx f_\omega^7(12)$$

Exahyperfaxul

$$((((((200![1])![1])![1])![1])![1])![1])![1]$$
$$\approx \text{E10\#\#201\#7}$$
$$\approx f_{\omega}^{7}(202)$$

Unaddom

$$f_{\omega}^{10}(10) = f_{\omega+1}(10)$$

Decuple Centifact

$$
\begin{aligned}
&100^{*}_{10} \\
&\approx \{10,11,1,2\} \\
&\approx f_{\omega}^{10}(98)
\end{aligned}
$$

Primibol

$$\mathrm{s}(3,2,3,2)$$
$$\approx \{3,27,1,2\}$$
$$\approx f_{\omega+1}(26)$$

Joycian dimentri

$$\begin{aligned} &\mathrm{g}(27,1,1,4,3,3) \\ &\approx \{10,28,1,2\} \\ &\approx f_{\omega+1}(27) \end{aligned}$$

Graham's number

$$\mathbf{G} = g_{64}$$
$$\approx \{3,65,1,2\}$$
$$\approx f_{\omega+1}(64)$$